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J. E. Snyder, Inc.

# HARDY Plant Material FOR 1929



*Linn County Museum*

SNYDER BROS., INC.

Center Point, Iowa

## FOREWORD

The increasingly wide variety of hardy plant material wanted by up-to-date gardeners makes a list so long that only more important facts about each item can be given. We have tried to give these in as brief form and as accurately as possible. At best no description can give one an accurate impression of a plant like actually seeing it can, so we invite those interested to see the various plants during the growing season. At that time someone is usually available to pilot visitors about and this is not usually the case at delivery time. Specimens wanted for particular places can be tagged any time for delivery at the next planting season.

**LOCATION.** Our nurseries are located just south of the C., R. I. & P. and W., C. F. & N. Stations in Center Point, eighteen miles from Cedar Rapids and twenty-five from Independence on Primary Road No. 11 (gravelled). The fruit and nut orchards are located two miles southeast of Center Point on Primary No. 11.

**PACKING FACILITIES.** A clay block building 100 feet square constructed for this purpose provides room for handling stock with proper protection. Boxes and bales are well papered and the roots protected with moist packing. Evergreens, large shade trees, and most perennials are dug as required for sending out.



## TERMS

**PRICES** given are for the stock, properly packed and delivered at the Nursery, the stations here, or at nearby towns in case we are making a general delivery there. Small plants will be sent by parcel post within the second zone or the third zone, if not too heavy. Large trees or shrubs can not be sent by parcel post.

**CONDITIONS.** All orders are accepted on condition that they shall be void should any injury befall the stock from hail, frost, fire, or other causes beyond our control. Deliveries are subject to delay by bad weather, bad roads, strikes, accidents, embargoes and causes beyond our control.

**TERMS** are cash on or before the delivery of the stock, unless previously otherwise agreed upon. Remittances may be by check, or any convenient form, payable to Snyder Bros., Inc.

**CLAIMS** for errors or shortage must be made immediately upon the receipt of the stock.

**GUARANTEE OF GENUINENESS.** While we exercise the utmost diligence to have all of our varieties true to name, and hold ourselves in readiness on proper proof to replace all trees, etc., that prove untrue to name, we do not give any warranty, expressed or implied, and in case of any error on our part, it is mutually agreed between the purchaser and ourselves that we shall not at any time be held responsible for any sum greater than amount originally paid for the said trees.

## THE LINN COUNTY NURSERIES

### APPLES

Apple trees should be planted 30x30 feet apart. They respond to good cultivation and care as freely as does corn or any other crop. Our trees are graded according to the standard rules of grading. The 5 to 6 foot size caliper  $\frac{1}{8}$  in. and up; the other sizes  $\frac{3}{8}$  to  $\frac{1}{4}$  in. and  $\frac{1}{2}$  to  $\frac{3}{4}$  in., respectively. Many varieties will run considerably taller than rated, and a few dwarf growing kinds are shorter.

The following is a list of the main varieties of apples we have this spring, arranged approximately in the order of their ripening:

#### EARLY VARIETIES

Liveland (Lowland Raspberry)	Duchess (Oldenburg)
Yellow Transparent	Benoni

Liveland is the best real early apple; it is beautifully colored, has the highest quality, and keeps remarkably for an early apple.

#### FALL VARIETIES

University	Ramsdell Sweet	Snow (Fameuse)
Bailey Sweet	Anism	Wolf River
Chenango	Wealthy	Longfield

#### WINTER VARIETIES

McIntosh	Virginia Beauty	Allen's Choice
Sharon	Greenville	Salome
Delicious	Windsor	Mammoth Black Twig
Jonathan	Iowa Blush	York Imperial
Evaline	Hawkeye Greening	Cotta
Ames	Tolman Sweet	Gano
Grimes (Golden)	Colorado Orange	Black Ben Davis
King David	Northern Spy	Willow Twig
Banana (Winter)	Roman Stem	Ben Davis
Golden Russet	N. W. Greening	Nelson Sweet
✓ Isherwood	Stayman (Winesap)	Malinda
Rome Beauty		Rall's (Janet or Geniton)

McIntosh we consider perhaps the most choice commercial variety for the north. Windsor has been a very profitable variety with us. It is very hardy, a regular and heavy producer, and is well colored, large, good, and late keeping. Sharon and Hawkeye Greening are new introductions from Ames. Both have splendid quality and promise to become standard varieties.

#### CRAB APPLES

Hyslop	White Arctic	Sweet Russet
Whitney (No. 20)	Transcendant	Martha
Virginia		✓ Wynema

Wynema is a hybrid Wild Crab, with fruit about the size and color of Whitney, but otherwise like the small green wild crabs.

Virginia is unexcelled as a stock upon which to topwork varieties such as Jonathan, Grimes, Stayman, etc., and therefore the best foundation for a permanent orchard.

PRICES of standard Apple and Crab Apple:	Each	Per 10	Per 100
5 to 6 feet .....	\$0.90	\$8.00	\$70.00
4 to 5 feet .....	.75	6.50	55.00
3 to 4 feet .....	.50	4.50	40.00

**DWARF APPLES**

Delicious	Wealthy	Yellow Transparent		
PRICES of Dwarf Apple		Each	Per 10	
4 to 5 feet		\$1.00	\$9.00	

**ANOKA**

Anoka, The Wonder Apple, of Prof. Hansen, is not strictly a dwarf, but a hybrid which bears extremely young. He says, "The fruit is two and one-half inches in diameter, round, Duchess type of coloring, flesh white, good subacid, season September."

PRICE of Anoka:	Each	Per 10
5 to 6 feet	\$1.00	\$9.00

**PEACHES**

Peaches in central Iowa should be planted where they will have as much protection as possible.

Leading varieties—Champion, Bokara, and Elberta.

PRICES—		Each	Per 10
Budded trees	4 to 5 ft.	\$0.60	\$5.00
	3 to 4 ft.	.45	4.00
Bailey Seedlings	3 to 4 ft.	.25	2.00
	2 to 3 ft.	.20	1.50

**PEARS**

More than one variety should be planted to insure pollination. The standard, or large growing trees, should be spaced 18 to 20 ft. apart; the Dwarfs, 10 ft. The following is a list of the varieties we have, arranged in approximate order of ripening:

Wilder	Lincoln	Flemish Beauty
Tyson	Bartlett	Kieffer
Clapp's Favorite	Seckel	Patten (4-5 ft. size only)
Longworth		Anjou

PRICES of all Standard Pears:	Each	Per 10
5 to 6 feet	\$1.20	\$10.00
4 to 5 feet	.90	8.00
3 to 4 feet	.70	6.00

**DWARF PEARS** are grafted on Quince roots, which dwarf and bring them into bearing earlier. The following varieties in the 4 to 5 and 3 to 4 foot sizes only:

Clapp's Favorite	Bartlett	Kieffer
Duchess	Seckel	Anjou
	Flemish Beauty	

PRICES of all Dwarf Pears:	Each	Per 10
4 to 5 feet	\$1.00	\$9.00
3 to 4 feet	.75	7.00

Duchess does particularly well as a dwarf.

## CHERRIES

(In order of ripening)

Dyehouse	Ostheime	Wragg
Early Richmond	Yellow Glass	English Morello
Montmorency		

Early Richmond and Montmorency are the most dependable and the most planted. Yellow Glass is a true, sweet cherry and is more tender than the others. Wragg and English Morello are very late and very dark in color.

PRICES of above varieties, except Yellow Glass—

Each Per 10

These are the same grades used

other years. The caliper governs.

Bushy varieties often are shorter

than rated.

$$\begin{array}{l} \frac{11}{16} \text{ in.} \\ \frac{9}{16} - \frac{11}{16} \text{ in.} \\ \frac{7}{16} - \frac{9}{16} \text{ in.} \end{array}$$

mostly 5-6 ft.

mostly 4-5 ft.

mostly 3-4 ft.

\$1.00 \$9.00

.90 8.00

.70 5.50

Yellow Glass 25c higher on each grade.

## PLUMS

Abundance	Fellenburg	Sapa
Beatty	German Prune	St. Anthony
Blue Moldovka	Gold	Surprise
Bohemian Prune	Hennepin	Terry
Burbank	Lombard	Toka
Compass	Mrs. Cleveland	Underwood
Communia	Omaha	Wachampa
Damson	Opata	Winona
Desoto	Red Wing	Wyckoff

Terry, Beatty, and Desoto are all pure American varieties of splendid quality for all purposes, and we believe most dependable of all for the far North.

Red Wing, Hennepin, St. Anthony, Underwood, and Winona are a new group of plums which recently originated at the Minnesota State Fruit Breeding Farm. They are all large or very large and excellent varieties. Red Wing has done extra well here.

Abundance and Burbank are Japanese varieties, which are much prized by some, but usually overbear and are short-lived here.

Sapa, Opata, and Wachampa are all hybrids of the Western Sand Cherry produced by Professor Hansen, and all make very crooked trees. Sapa is of medium size, has purplish flesh, a very small pit, and is very fine for canning. Wachampa is very similar to Sapa except the flesh is a lighter color. Opata has green flesh and is very early, but not especially good for cooking.

Toka is also a hybrid produced by Professor Hansen and generally included in the group known as the Hansen Hybrids. It is a cross of the American Plum and Prunus Simoni. The fruit is bright red, of good size, and has a very pronounced apricot fragrance and flavor. Many people think this the best plum in our whole list.

Blue Moldovka, Communia, Damson, German Prune, Pacific Prune, and Lombard are all European varieties, which are often spoken of as blue plums.

Wyckoff is a variety of medium size and light red color with a very thin skin and especially fine for canning, no other variety excelling it for this purpose.

PRICES of Plum Trees:

Each Per 10

5 to 6 feet ..... \$1.00 \$9.00

4 to 5 feet ..... .80 7.50

3 to 4 feet ..... .60 5.50

## GRAPES

(In order of ripening)

Beta, black	Elvira, white	Caco, red
Hungarian, black	Worden, black	Lutie, red
Moore Early, black	Delaware, red	Concord, black
Diamond (Moore's, white)	Lucile, red	Woodruff, red
Wyoming, red	Niagara, white	Agawan, red

Beta, Hungarian, and Elvira are small grapes, but very hardy and well suited for arbors and pergolas.

Concord is the best shipping variety and predominates in commercial plantings.

Worden and Moore Early are larger and sweeter than Concord and should be included in the home vineyard.

### PRICES—

	Each	Per 10	Per 100
Concord—1 year .....	\$0.20	\$1.50	\$10.00
2 year .....	.25	2.00	15.00
Caco—1 year .....	.60		
2 year .....	.75		
Other varieties—1 year .....	.25	2.00	15.00
2 year .....	.30	2.50	22.50

## CURRENTS

Currents cannot be sent across the quarantine line, which is the western line of Iowa.

Victoria	White Grape	Diploma
Wilder	Cherry	Fay (Fay's Prolific)
	Perfection	
2-year Bushes—		Each Per 10 Per 100
Perfection .....		\$0.40 \$3.50 \$30.00
Other varieties .....		.30 2.50 17.50

## GOOSEBERRIES

Subject to the same quarantine as Currants.

Champion	Downing	Carrie
	Pearl	
PRICES—2-year plants .....	30c each	\$2.50 per 10

## RASPBERRIES

The purple and black varieties grow from tips, red ones from suckers. For home use, the purple caps will produce more fruit than the others.

Cumberland is the most planted of the black caps.

Latham is far the best and most profitable of the red varieties. Plant in hedge rows about two feet apart in the rows.

Cardinal, purple	Haymaker, purple	Louden, red
Cumberland, black	Royal Purple, purple	Latham, red
St. Regis, red everbearing	King, red	

PRICES—	Per 10	Per 100	Per 1000
Purple varieties and Latham .....	\$0.75	\$6.00	\$50.00
Other varieties .....	.40	3.00	25.00

## BLACKBERRIES AND DEWBERRIES

We have found the Snyder Blackberry the most dependable of many kinds tried and confine our growing to it. All the plants offered are root cutting plants; none are suckers from an old run-out patch.

PRICES—Snyder Blackberry	Per 10	Per 100	Per 1000
Heavy grade .....	\$0.60	\$4.50	\$40.00
Medium grade .....	.40	3.00	25.00
Light grade priced on application.			
Lucretia Dewberry .....	.75	6.00	50.00

## STRAWBERRIES

The Dunlap Strawberry succeeds so well under so many different conditions and is so good for all purposes that we advise it as the best spring bearing variety for general planting. Put out a new bed each year in rows 3½ to 4 feet apart and 18 inches in the row.

The fall bearing Strawberries do best north of central Iowa, where if proper care is given and conditions are favorable, wonderful results are often obtained. They should be planted early in the spring on good, rich ground and a new patch planted each year.

PRICES—	Per 100	Per 1,000
Dunlap .....	\$1.00	\$ 9.00
Progressive, fall bearing .....	2.50	20.00
Champion, fall bearing .....	2.50	20.00
Mastodon, fall bearing .....	3.00	25.00

## ASPARAGUS

This is one of the first ready to use and most wholesome of the spring vegetables. Plant it along the fence and plant it by the hundred rather than by the dozen.

Martha Washington (Rust Proof), or the older varieties.

PRICES—	Per 10	Per 100	Per 1,000
Two-year plants .....	\$0.40	\$2.50	\$20.00

## RHUBARB

Rhubarb, like Asparagus, should be planted where it need not be disturbed and will produce a great lot of wholesome food with the minimum amount of work. Heavy clumps of it may be forced in the cellar in winter if they are dug in the fall and allowed to freeze hard before taking in.

PRICES—	Each	Per 10	Per 100
Two-year roots .....	\$0.20	\$1.50	\$10.00
One-year roots .....	.15	1.00	6.00

## EVERGREENS

All the evergreens we offer have been transplanted two or more times unless otherwise noted. They are always dug fresh as sent out. If the buyer comes to the Nursery after them, they can be lifted directly from the row to his truck and have a minimum of exposure. If the roots of evergreen ever become thoroughly dry they cannot be revived as other trees can. Failure in transplanting them is largely due to allowing them to become dry while planting, to not packing good, mellow, moist soil very firmly around the roots, or to not properly conserving moisture about them through the summer by frequent shallow cultivation and by mulching.

**SPACING.** Plant Pines or Spruces 7 to 8 feet apart for single row windbreaks, and 10 to 12 feet apart for double rows. For low hedges plant 18 to 24 inches apart, depending on size.

**SOILS.** Plant Pines on dry or well drained soil. The Bull Pine will do well on very gravelly soil. In places where it is quite wet at times Spruce will be better, and in very wet places Arborvitae is the best.

**PESTS.** Red Spider or Mite has caused much trouble during a drouth in the growing season. A rusty appearance is likely to be due to it. Water applied under a high pressure to the tops every few days is an effective remedy, or a soluble oil spray applied according to the manufacturer's directions is also effective.

### EVERGREENS FOR WINDBREAKS AND HEDGES

Prices in this section do not include Ball and Burlap; if wanted that way, the expense of it must be added. Each X represents one transplanting.

	Size	Each	Per 10	Per 100
<b>ARBORVITAE—American, Thuja</b>				
<b>occidentalis</b> .....	15-18 in. XX	\$0.50	\$4.50	\$40.00
A native of the north, preferring a moist soil and enduring partial shade.	18-24 in. XX	.75	7.00	65.00
	2-3 ft. XX	.90	8.00	75.00
<b>PINE—Bull, Pinus ponderosa, Western</b>				
<b>Yellow Pine</b> .....	3-4 ft. XXX	.70	6.00	55.00
A native of the Black Hills, with very long needles and thick, stout branches, which are not broken by heavy sleet or severe storms. Extremely hardy and drouth-resistant. Slender trees.	4-5 ft. XXX	.85	8.00	75.00
	5-6 ft. XXX	1.00	9.50	90.00
<b>PINE—White, Pinus strobus</b> .....				
One of Iowa's few native conifers and one of the best for windbreaks.	15-18 in. XX	.60	5.50	50.00
	18-24 in. XX	.75	7.00	60.00
	2-3 ft. XX	.90	8.50	75.00
	3-4 ft. XX	1.00	9.50	85.00
<b>RED CEDAR—Juniperus virginiana</b> .....				
Should not be planted near apple trees because of the Cedar-Apple rust, otherwise very desirable.	18-24 in. XX	.75	6.00	
	2-3 ft. XX	.90	7.50	
<b>SPRUCE—Norway, Picea excelsa</b> .....				
Native to Northern Europe. Most grown and recommended by Nurserymen because it is the easiest to grow.	12-15 in. XX	.40	3.50	30.00
	15-18 in. XX	.50	4.50	40.00
	18-24 in. XX	.60	5.50	50.00
	2-3 ft. XX	.75	7.00	60.00

### SPECIMEN EVERGREENS—For Landscape Planting

(Prices in this section include ball and burlap)

The following are well developed trees which have been several times transplanted and are dug with a solid ball of earth securely burlapped and bound. They are much heavier to handle, but easier to plant and more certain to grow. In planting do not remove the burlap. After the tree is in place and hole partly filled to hold it, cut the burlap loose around the top and pour in plenty of water. Large trees over 8 feet should be ordered before hard freezing so they can be mulched for digging and the ball of dirt frozen solidly before moving. Imperfect specimens (defective on one side or at the bottom) can often be used as effectively in groups and will be priced according to quality. Each X represents one transplanting.

## SPECIMEN EVERGREENS—Continued

	Size	Each
<b>ARBORVITAE—American</b> .....	18-24 in. XXX	\$1.50
Sheared Trees.	2-3 ft. XXX	2.50
	3-4 ft. XXX	3.50
	4-5 ft. XXX	4.50
	5-6 ft. XXX	6.00
— <b>Globe</b> .....	10-12 in. XX	1.00
A dwarf form which makes compact globes without trimming.	12-15 in. XX	1.50
	15-18 in. XX	2.00
	18-24 in. XX	2.50
— <b>Geo. Peabody's Golden</b> .....	15-18 in. XXX	2.00
A clear golden yellow on the tips, needs shearing to make it compact.	18-24 in. XXX	2.50
	2-3 ft. XXX	3.50
— <b>Pyramidal</b> .....	9-12 in. XX	.60
Grows in columnar form without shearing.	12-15 in. XXX	1.00
	15-18 in. XXX	1.50
	18-24 in. XXX	2.00
	2-2½ ft. XXX	3.00
	2½-3 ft. XXX	4.00
	3-3½ ft. XXX	5.00
— <b>Siberian</b> .....	12-15 in. XX	1.50
The hardiest of all the Arborvitae, very compact, broadly conical in form and with dense dark green foliage.	15-18 in. XXX	2.00
	18-24 in. XXX	2.50
	2-2½ ft. XXX	3.50
<b>FIR—Balsam</b> .....	4-5 ft. XXX	4.50
A native of Iowa and Northeast. It should have moist soil. The leaves and branches are delightfully fragrant.	5-6 ft. XXX	6.00
	6-7 ft. XXX	7.00
— <b>Concolor. The Silver Fir of Colorado</b> .....	12-18 in. XXX	2.50
	3-4 ft. XXX	8.00
— <b>Douglas, also known as Douglas Spruce</b> .....	2½-3 ft. XXX	4.00
	3-4 ft. XXX	6.00
	4-5 ft. XXX	8.00
	5-6 ft. XXX	10.00
<b>HEMLOCK—Tsuga canadensis</b> .....	12-18 in. XX	2.00
Native to northeastern United States. A slow growing, graceful tree with short, flat needles, bright green above, silvery beneath.	18-24 in. XXX	2.50
	2-2½ ft. XXX	3.00
<b>JUNIPER—Pfitzer</b> .....	12-15 in. XX	2.00
A variety of the Chinese Juniper 5 to 7 ft. The foliage is bluish green and the branches grow out horizontally from the stem, which gives the tree an individuality of its own. Sizes apply to width rather than height.	15-18 in. XXX	3.00
	18-24 in. XXX	4.00
	2-2½ ft. XXX	5.00
	2½-3 ft. XXX	6.00
— <b>cracovica, 4 to 5 ft.</b> .....	12-15 in. XX	1.50
An upright, many-branched variety with silvery green foliage.	15-18 in. XX	2.00
	18-24 in. XX	2.50
— <b>horizontalis glauca, 1 ft.</b> .....	15-18 in. XX	2.00
A very low ground-covering type with thread-like steel blue foliage. Rapid growing, dense, and very fine.	2-2½ ft. XX	3.50
	2½-3 ft. XX	5.00

## SPECIMEN EVERGREENS—Continued

	Size	Each
— <i>sabina tamariscifolia</i> , 1 to 1½ ft. ....	12-15 in. XX	\$2.00
A vigorous low-growing variety about 1 ft. high and wide-spreading with bluish-gray green foliage.	15-18 in. XX	2.50
— <i>Savin</i> , 6 to 7 ft. ....	9-12 in. XX	1.50
A bushy little tree with semi-erect branches and clear green foliage. It is excellent for foundation plantings and in rockeries or dry sunny places.	12-15 in. XX	2.00
	15-18 in. XX	3.00
	18-24 in. XX	4.00
— <i>virginiana</i> , Red Cedar, 25 to 30 ft. ....	18-24 in. XX	1.50
	2-3 ft. XX	2.00
	3-4 ft. XX	3.00
	4-5 ft. XXX	4.50
	5-6 ft. XXX	6.00
	6-7 ft. XXX	7.50
<b>LARCH</b> —European, 50 to 60 ft. ....	18-24 in. XX	1.00
A conifer, but not an evergreen. Makes a strikingly beautiful specimen.	2-3 ft. XX	1.50
	3-4 ft. XX	2.50
	6-7 ft. XX	5.00
<b>PINE</b> —Bull, 50 to 70 ft. ....	3-4 ft. XXX	3.00
Long, coarse needles; excellent in the background. Larger sizes quoted on application.	4-5 ft. XXX	4.00
	5-6 ft. XXX	5.00
	6-7 ft. XXX	7.00
	7-8 ft. XXX	9.00
— <i>Mugho</i> , Dwarf Mountain Pine, 3 to 5 ft. ....	9-12 in. XX	1.50
This makes a compact dome-shaped bush broader than high. Sizes apply to width rather than height.	12-15 in. XX	2.00
— <i>Scotch</i> , 25 to 30 ft. ....	15-18 in. XX	1.00
Bright green at all times and endures city conditions exceptionally well. May be sheared into any form.	18-24 in. XX	1.25
	3-4 ft. XXX	3.00
— <i>White</i> , 60 to 100 ft. ....	2-3 ft. XX	2.50
The softest foliage of the pines. Endures some shade and is the longest-lived pine here.	3-4 ft. XX	3.00
<b>SPRUCE</b> —Black Hills, 50 to 70 ft. ....	12-15 in. XXX	1.50
A native of the Black Hills. It does very well over a wide range and makes the finest specimens of all Spruce. This is a very variable species, ranging from very compact dwarfs to more open, rapid-growing trees, and from clear green to silvery blue-green.	15-18 in. XXX	2.00
	18-24 in. XXX	2.50
	2-2½ ft. XXX	3.00
	2½-3 ft. XXX	4.00
	3-4 ft. XXX	5.00
	4-5 ft. XXX	6.00
	5-6 ft. XXX	7.50
	6-7 ft. XXX	10.00
— <i>Colorado Blue</i> , 30 to 50 ft. ....		
A native of Colorado. It varies from clear green to glistening silvery blue. They are slow-growing and very compact, making the finest lawn specimens.		
— <i>Selected Blue Specimens or Shiners</i> .....	18-24 in. XXX	6.00
	2-2½ ft. XXX	7.50
	2½-3 ft. XXX	10.00
	3-4 ft. XXX	12.50
	4-5 ft. XXX	17.50
	5-6 ft. XXX	22.50

## SPECIMEN EVERGREENS—Continued

	Size	Each
— Green Specimens .....	2-2½ ft. XXX	\$3.00
These often, but not always, develop a blue color with age.	3-4 ft. XXX	6.00
	4-5 ft. XXX	8.00
	5-6 ft. XXX	10.00
— Norway, 50 to 70 ft. ....	2-3 ft. XXX	2.50
	3-4 ft. XXX	3.00
YEW— <i>Taxus canadensis</i> , Canada Yew .....	9-12 in. XX	1.00
Requires shade.	12-15 in. XX	1.50
— <i>Taxus cuspidata brevifolia</i> , Japanese Yew .....	6-9 in. XX	1.00
Prefers some shade.	9-12 in. XX	1.50
— <i>Taxus cuspidata intermedia</i> .....	12-18 in.	2.00

## DECIDUOUS TREES AND SHRUBS

Trees and Shrubs are included under one heading, as it is difficult to distinguish between them and there is no need for trying to do so. Botanical names are given preference except where the common names are well established and better known. Larger sizes than are quoted can be furnished of many trees and shrubs and correspondence concerning them is invited, also larger quantities will be gladly quoted. The figures after the names indicate the size attained at maturity under average conditions, and will vary considerably in different places.

Special requirements such as acid soil, wet soil, shade, etc., are noted if important.

	Size	Each	Per 10
ACANTHOPANAX pentaphyllum, 5 to 7 ft. ....	2 to 3 ft.	\$0.50	\$4.00
Arching spiny branches with good foliage. Tolerates smoke and drouth.	3 to 4 ft.	.60	5.00
ALMONDS—Flowering. See <i>Prunus glandulosa</i> .			
ALTHEAS, Rose of Sharon, <i>Hibiscus syriacus</i> , 6 to 12 ft. ....	2 to 3 ft.	.60	5.00
Hollyhock-like flowers in various colors. Quite tender.	3 to 4 ft.	.75	6.50
AMELANCHIER sp. Dwarf Juneberry, Serviceberry, 6 to 8 ft. ....	12 to 18 in.	.35	3.00
A mass of white in early spring, followed by great crops of purplish, edible, sweet fruit. Attracts birds.	18 to 24 in.	.45	4.00
	2 to 3 ft.	.60	5.00
ARONIA melanocarpa, Black Chokeberry, 4 to 6 ft. ....	18 to 24 in.	.75	6.50
White flowers early. Black fruit and brilliant fall foliage.	2 to 3 ft.	1.00	9.00
ASH—American, 50 to 60 ft. ....	7 to 8 ft.	1.00	10.00
Splendid shade tree.	8 to 10 ft.	1.50	14.00
	10 to 12 ft.	2.00	18.00
BARBERRY, Japanese. See Hedge Plants.			
— Red Leaved, purplish red all summer .....	12 to 15 in.	.90	8.00

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
— <b>Box</b> , a very dwarf form, 2 to 3 ft. ....	9 to 12 in.	\$ .35	\$3.00
Compact, very desirable.	12 to 15 in.	.50	4.50
<b>BIRCH</b> — <b>European White</b> , 30 to 40 ft. ....	5 to 6 ft.	1.75	16.00
Bark becomes white. Plant in early spring only.	6 to 8 ft.	2.50	22.00
<b>BLADDERNUT</b> , <i>Staphylia trifolia</i> , 8 to 10 ft. ....	18 to 24 in.	.50	4.00
White flowers. Moist soil, part shade.	2 to 3 ft.	.60	5.00
<b>BUTTERFLY BUSH</b> , <i>Buddleia davidi magnifica</i> ,			
5 to 7 ft. ....	Strong 2 year	.50	4.00
Spikes of rose-colored flowers with orange eye	Strong 1 year	.30	2.50
from July till freezing. Needs good winter			
protection.			
<b>BUTTON BUSH</b> , <i>Cephalanthus occidentalis</i> ,			
5 to 6 ft. ....	18 to 24 in.	.50	4.00
Greenish-white flowers in round balls. Likes wet	4 to 5 ft.	1.25	
soil.			
<b>CARAGANA arborescens</b> , <b>Siberian Pea Tree</b> ,			
10 to 15 ft. ....	18 to 24 in.	.30	2.00
Soft pea green foliage very early and bright	2 to 3 ft.	.40	3.00
yellow flowers. Thrives in dry soil in sun,	3 to 4 ft.	.50	4.00
	4 to 5 ft.	.60	5.00
<b>CATALPA speciosa</b> , <b>Western Catalpa</b> , 30 to 40 ft. ....	5 to 6 ft.	.75	6.50
Many large white flowers in June.	6 to 8 ft.	1.25	10.00
<b>CATALPA bungei</b> , <b>Umbrella Catalpa</b> , 8 to 10 ft. ....	5½ to 6 ft.	3.00	25.00
Size given is height to grafted head.	5 to 5½ ft.	2.50	20.00
<b>CLETHRA alnifolia</b> , <b>Summersweet</b> , 4 to 5 ft. ....	12 to 18 in.	.50	4.00
Upright racemes of very fragrant creamy white	18 to 24 in.	.75	6.00
flowers in August and September. Likes moist,	2 to 3 ft.	.90	8.00
acid, sandy soil.			
<b>CORNUS</b> , <b>Dogwood</b> .			
— <b>alternifolia</b> , <b>Pagoda Dogwood</b> , 15 to 18 ft. ....	18 to 24 in.	.60	5.00
Horizontal branches in tiers. Blue berries	2 to 3 ft.	.75	6.50
very attractive to birds. Endures shade.	3 to 4 ft.	1.00	9.00
Strikingly picturesque.	4 to 5 ft.	1.25	11.00
— <b>florida</b> , <b>Flowering Dogwood</b> , 10 to 20 ft. ....	18 to 24 in.	.75	6.00
Large white flowers before the leaves. Red	2 to 3 ft.	1.00	9.00
berries. Unexcelled fall coloring.	3 to 4 ft.	1.25	11.00
— <b>alba siberica</b> , <b>Coral Dogwood</b> , 8 to 10 ft. ....	18 to 24 in.	.30	2.50
Cymes of creamy white flowers in May-June,	2 to 3 ft.	.40	3.50
bluish-white berries in July. Bark bright	3 to 4 ft.	.50	4.50
coral red in winter.	4 to 5 ft.	.70	6.00
— <b>stolonifera lutea</b> , <b>Yellow-twigged Dogwood</b> ,			
8 to 10 ft. ....	18 to 24 in.	.40	3.50
Golden yellow bark in winter.	2 to 3 ft.	.50	4.50
	3 to 4 ft.	.60	5.50
— <b>mas</b> , <b>Cornelian Cherry</b> , 10 to 15 ft. ....	18 to 24 in.	1.00	9.00
Small yellow flowers before the leaves. Red	2 to 3 ft.	1.25	11.00
berries attractive to birds.			

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
<b>COTONEASTER acutifolia</b> , Quinceberry, 5 to 8 ft.	18 to 24 in.	\$ .50	\$4.50
Small pinkish flowers, black berries. Smooth,	2 to 3 ft.	.60	5.50
glossy, dark green leaves. Splendid hedge	3 to 4 ft.	.75	6.50
plant.			
— <b>divaricata</b> , Spreading Cotoneaster, 4 to 6 ft.	12 to 15 in.	1.00	9.00
Pink flowers, oblong red berries. Brilliant			
fall foliage.			
— <b>horizontalis</b> , Rock or Prostate Cotoneaster,			
1 to 2 ft.	9 to 12 in.	1.00	9.00
Pinkish-white flowers, bright red berries.			
Prostrate.			
— <b>hupehensis</b> , Hapeh Cotoneaster, 4 to 5 ft.	9 to 12 in.	1.00	9.00
White flowers, red berries, yellow fall foliage.			
<b>CRABS—All small trees, flowering in May.</b>			
— <b>Bechtel's Double Flowering</b> , 10 to 15 ft.	2 to 3 ft.	1.00	9.00
Large, double, pink, fragrant flowers. "A	3 to 4 ft.	1.50	12.00
tree full of roses", people usually exclaim.	4 to 5 ft.	2.00	18.00
	5 to 6 ft.	2.50	22.50
— <b>Carmine</b> , <i>Malus atrosanguinea</i> , 10 to 15 ft.	2 to 3 ft.	1.00	9.00
Single brilliant carmine flowers. Rapid	3 to 4 ft.	1.25	12.00
grower.	4 to 5 ft.	1.50	_____
— <b>Hoppa</b> , Hansen's Red Flowering Crab	3 to 4 ft.	1.25	10.00
A rapid growing kind with large red flowers,	4 to 5 ft.	1.50	12.50
fruit, new growth, and wood.	5 to 6 ft.	1.75	15.00
— <b>Spectabilis</b> , Chinese Flowering Crab, 8 to 12 ft.	2 to 3 ft.	1.25	10.00
Pink flowers in great profusion. Small fruit.	3 to 4 ft.	1.50	12.50
— <b>Parkman</b> , <i>Malus halliana</i> , 10 to 15 ft.	3 to 4 ft.	1.50	12.50
Double bright rose flowers on slender stems.	4 to 5 ft.	2.00	18.00
<b>CRANBERRY</b> , Highbush. See <i>Viburnum opulus</i> .			
<b>CURRENTS</b> , Alpine, <i>Ribes alpinum</i> , 3 to 5 ft.	15 to 18 in.	.60	5.00
Very compact, shade and drouth enduring.	18 to 24 in.	.75	6.00
Extremely hardy. Fine hedge plant.	2 to 3 ft.	.90	7.50
— <b>Yellow Flowering</b> , <i>Ribes odoratum</i> , 4 to 6 ft.	2 to 3 ft.	.50	4.50
Fragrant, very early blooming.	3 to 4 ft.	.60	5.50
<b>DAPHNE cneorum</b> , Rose Daphne,			
Evergreen shrub, 1 to 1½ ft.	6 to 9 in.	1.00	9.00
Fragrant pink flowers September. Needs	9 to 12 in.	1.25	12.00
sandy, cool, perfectly drained soil, and win-			
ter protection.			
<b>DESMODIUM pendulifolium</b> , Purple Bushclover,			
3 to 5 ft.	2 year No. 1	.75	7.00
Purplish racemes in late summer. Protect.			
<b>DEUTZIA crenata</b> , Pink Deutzia, 5 to 7 ft.	2 to 3 ft.	.50	4.50
— <b>gracilis</b> , Slender Deutzia, 3 to 4 ft., white	18 to 24 in.	.75	6.50
— <b>lemonae</b> , Lemoine Deutzia, 4 to 5 ft., white	18 to 24 in.	.60	5.00

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
<b>ELDER, Cut Leaved, 8 to 9 ft.</b> .....	2 to 3 ft.	\$ .40	\$3.50
A variety of the common elder with finely cut foliage.	3 to 4 ft.	.50	4.00
	4 to 5 ft.	.60	5.00
— <b>Golden, 9 to 10 ft.</b> .....	2 to 3 ft.	.50	4.00
A variety with conspicuous yellow foliage.	3 to 4 ft.	.60	5.00
— <b>Red Berried, Sambucus pubens, 7 to 8 ft.</b> .....	4 to 5 ft.	.60	5.50
Bright red berries; very attractive.	5 to 6 ft.	.75	7.00
<b>ELM—American White, 80 to 100 ft.</b> .....	5 to 6 ft.	.75	7.00
One of the best of all shade trees. Thrives in almost all situations.	6 to 8 ft.	1.25	12.00
	8 to 10 ft.	2.00	18.00
	10 to 12 ft.	2.50	22.50
— <b>Moline, 80 to 100 ft.</b> .....	4 to 5 ft.	1.25	11.00
An upright variety of the above, with very large leaves. Very vigorous. Budded and all one type.	5 to 6 ft.	1.50	12.50
	6 to 8 ft.	2.00	17.50
	8 to 10 ft.	2.50	22.50
— <b>Vase</b> .....	5 to 6 ft.	1.50	
A spreading, vase-shaped type. Budded and uniform in habit.	6 to 8 ft.	2.00	
— <b>Weeping</b> .....	2 yr. heads	3.00	
A pendulous form making umbrella-shaped tops; grafted about 6 ft.	1 yr. heads	2.25	
— <b>Chinese, Ulmus pumila</b> .....	4 to 5 ft.	1.50	12.50
Very rapid growing. Fine twigs and leaves remaining green till winter. Branched to ground.	5 to 6 ft.	2.00	17.50
<b>EUONYMUS alatus, Winged Wahoo, 6 to 9 ft.</b> .....	18 to 24 in.	1.00	9.00
Broad, corky wings on the twigs, red berries and brilliant fall foliage make this attractive at all seasons.	2 to 3 ft.	1.50	12.50
	3 to 4 ft.	2.00	18.00
— <b>atropurpurea, Burning Bush, 8 to 10 ft.</b> .....	12 to 18 in.	.40	3.00
Copious crimson fruit in fall. Native.	18 to 24 in.	.50	4.00
— <b>radicans, Wintercreeper. Evergreen</b> .....	15 to 18 in.	.60	5.00
A shrubby vine for protected places only.			
<b>EXOCHORDIA grandiflora, Pearlbush, 6 to 8 ft.</b> .....	2 to 3 ft.	1.00	
Pearl-like buds which open pure white.	3 to 4 ft.	1.25	
<b>FORSYTHIA intermedia, Yellow Bells, 6 to 8 ft.</b> .....	18 to 24 in.	.40	3.00
Arching branches. Blooms very early. Sometimes frozen. Branches bloom indoors.	2 to 3 ft.	.50	4.00
	3 to 4 ft.	.60	5.00
<b>GINKGO, Maiden Hair Tree, Salisburia, 40 to 60 ft.</b> .....	3 to 4 ft.	1.75	15.00
The oldest tree, unchanged through the geological ages. Immune to insects and diseases.	4 to 5 ft.	2.50	22.50
<b>HACKBERRY, Celtis occidentalis, 50 to 60 ft.</b> .....	5 to 6 ft.	1.25	10.00
A strong, rapid-growing shade tree with sweet berries in winter.	6 to 8 ft.	2.00	17.50
	8 to 10 ft.	2.50	22.50

## DECIDUOUS TREES AND SHRUBS—Continued

HONEYSUCKLE, <i>Lonicera</i> .		Size	Each	Per 10
— <i>Bella albid</i> .....		18 to 24 in.	\$ .40	\$3.00
Vigorous, upright, 8 to 9 ft. White flowers,		2 to 3 ft.	.50	4.00
red berries.		3 to 4 ft.	.60	5.50
— <i>Fragrantissima</i> , Winter Honeysuckle, 6 to 8 ft. ....		18 to 24 in.	.50	4.00
Whitish fragrant flowers. Very early. Red		2 to 3 ft.	.60	5.00
berries.				
— <i>Morrow's</i> , 6 to 8 ft. ....		18 to 24 in.	.40	3.00
White flowers. Red berries. Compact,		2 to 3 ft.	.50	4.00
spreading, excellent for hedges. Trims well.		3 to 4 ft.	.60	5.50
— <i>Tartarian</i> , 8 to 10 ft. ....		18 to 24 in.	.40	3.00
Upright. Pink or white flowers, red berries.		2 to 3 ft.	.50	4.00
The commonest bush honeysuckle.		3 to 4 ft.	.60	5.50
<b>HORSE CHESTNUT, <i>Aesculus hippocastanum</i>,</b>				
40 to 60 ft. ....		4 to 5 ft.	2.50	
<b>HYDRANGEA <i>arborescens grandiflora</i>,</b>				
<b>Hills of Snow</b> , 4 to 5 ft. ....		12 to 18 in.	.45	4.00
Large clusters of white flowers in July. En-		18 to 24 in.	.60	5.00
dures shade.		2 to 3 ft.	.75	6.50
— <i>paniculata grandiflora</i> , Hardy Hydrangea,				
<b>Peegee Hydrangea</b> , 8 to 9 ft. ....		12 to 18 in.	.40	3.00
Large panicles of white in August, changing		18 to 24 in.	.60	5.00
to pink and bronze green. Bush Form.		2 to 3 ft.	.75	6.00
		3 to 4 ft.	1.00	9.00
— — <b>Tree Form</b> of the above .....		3 to 4 ft.	1.75	
— — <b>Praecox</b> .....		12 to 18 in.	.50	4.50
Blooms six weeks earlier and has part fer-		18 to 24 in.	.60	5.50
tile flowers.				
<b>HYPERICUM aureum, Golden St. Johnswort</b> .....		18 to 24 in.	.75	
Blue-green foliage. Bright yellow flowers in				
July-August.				
<b>ILEX verticillata, Winterberry</b> , 6 to 8 ft. ....		18 to 24 in.	.90	
Red berries till mid-winter. For wet, acid soil.				
<b>KENTUCKY COFFEE TREE, <i>Gymnocladus</i></b>				
<b>dioica</b> , 40 to 50 ft. ....		2 to 3 ft.	1.00	
Compound, blue-green leaves, slow growing.		3 to 4 ft.	1.50	
Thick, fleshy seed pods.		4 to 5 ft.	1.75	
<b>KOLKWTZIA amabilis, Chinese Beautybush</b> ,				
6 to 8 ft. ....		6 to 12 in.	1.00	
Bell-shaped pink flowers with orange center,		18 to 24 in.	2.00	
in great profusion in June. Rapid growing.		4 to 5 ft.	4.00	
One of the best new shrubs.				
<b>LILACS, Botanically <i>Syringa</i>. Prefer a limestone</b>				
soil.				
— <b>Common Purple and Common White</b> , unnamed ....		18 to 24 in.	.50	4.00
		2 to 3 ft.	.60	5.00

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
— <b>S. japonica, Japanese Tree Lilac</b> , 15 to 20 ft. ....	3 to 4 ft.	\$1.25	\$12.00
Yellowish-white flowers very late.	4 to 5 ft.	1.50	14.00
— <b>S. josikea, Hungarian Lilac</b> , 9 to 10 ft. ....	18 to 24 in.	.60	5.00
Dark, glossy foliage. Purplish-violet flowers	2 to 3 ft.	.75	7.00
in June.	3 to 4 ft.	1.00	9.00
— <b>S. henri letece, Henry Lutece Lilac</b> , 8 to 10 ft. ....	2 to 3 ft.	1.25	12.00
Huge clusters of rose-purple flowers very late.	3 to 4 ft.	1.50	14.00
— <b>S. microphylla</b> , 6 to 8 ft. ....	18 to 24 in.	1.50	
Slender, arching branches. Pale lavender	2 to 3 ft.	2.00	
flowers in June and again in Autumn.			
— <b>S. persica, Persian Lilac</b> , 8 to 10 ft. ....	18 to 24 in.	.60	5.00
Pale lilac flowers in June very freely. Leaves	2 to 3 ft.	.75	7.00
small, twigs fine and arching.	3 to 4 ft.	1.00	9.00
— <b>S. pubescens</b> , 8 to 9 ft. ....	2 to 3 ft.		
Very early and beautiful. Large clusters of	(on privet)	1.50	
pinkish-lilac flowers, most fragrant.			
— <b>S. rothmagenesis, Rouen Lilac</b> , 6 to 10 ft. ....	18 to 24 in.	.60	5.00
Violet flowers, Slender arching branches.	2 to 3 ft.	.75	7.00
	3 to 4 ft.	1.00	9.00
— <b>S. villosa, Late Lilac</b> , 7 to 8 ft. ....	18 to 24 in.	1.00	8.00
Pale pinkish-lilac. June. Scented.	2 to 3 ft.	1.25	10.00
<b>“FRENCH LILACS”, named varieties.</b>			
— <b>Alphonse Lavalle</b> .....	2 to 3 ft.	1.25	
Double, violet-blue.	3 to 4 ft.	1.75	
— <b>Belle de Nancy</b> .....	18 to 24 in.	1.00	
Double, satiny rose.	2 to 3 ft.	1.25	
— <b>Charles Tenth</b> .....	18 to 24 in.	1.00	
Single, purplish-red.	2 to 3 ft.	1.25	
— <b>Dr. Von Regal</b> .....	18 to 24 in.	1.00	
Single, rose-mauve.			
— <b>Jacques Calot</b> .....	2 to 3 ft.	1.25	
Single, delicate rosy pink.			
— <b>Jean Bart</b> .....	18 to 24 in.	1.00	
Double, rose-violet, carmine buds.	2 to 3 ft.	1.25	
— <b>Leon Ganbetta</b> .....	18 to 24 in.	2.00	
Double, pink-lilac, large.			
— <b>Louis Henry</b> .....	2 to 3 ft.	1.25	
Double, rosy-lilac.			
— <b>Louvain, Lovaniensis</b> .....	18 to 24 in.	1.00	
Single, silvery pink.			

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
—Ludwig Spaeth .....	18 to 24 in.	\$1.00	
Single, very dark reddish purple. A very	2 to 3 ft.	1.25	
popular variety.	3 to 4 ft.	1.50	
—Mme. Casimir Perier .....	3 to 4 ft.	1.75	
Double, white.			
—Mme. Lemoine .....	18 to 24 in.	1.00	
Double, large, pure white.	2 to 3 ft.	1.25	
—Michael Buchner .....	18 to 24 in.	1.00	
Double, pale lilac.	2 to 3 ft.	1.25	
—Oliver de Sierres .....	18 to 24 in.	1.00	
Double, pale bluish-lilac.			
—Philemon .....	18 to 24 in.	1.00	
Single, dark reddish purple.	2 to 3 ft.	1.25	
—Pres. Falliere .....	2 to 3 ft.	1.50	
Double, lavender-pink, very large.	3 to 4 ft.	2.00	
—Pres. Grevy .....	18 to 24 in.	1.00	
Double, very fine, blue.	2 to 3 ft.	1.25	
—Pres. Viger .....	18 to 24 in.	1.00	
Double, purplish-blue.	2 to 3 ft.	1.25	
	3 to 4 ft.	1.50	
—Prince de Beauvau .....	18 to 24 in.	1.00	
Double, violet.			
—Royal Blue, Coerulea .....	18 to 24 in.	1.00	
Single, blue.	2 to 3 ft.	1.25	
—Rubella Flora Plena .....	18 to 24 in.	1.00	
Double, light lavender.			
—Rubra de Marley .....	18 to 24 in.	1.00	
Double, reddish-purple.	2 to 3 ft.	1.25	
—Statgartner Rothpelz .....	18 to 24 in.	1.00	
Double, reddish-purple.	2 to 3 ft.	1.25	
—Volcam .....	18 to 24 in.	1.00	
Single, large, dark red-purple.			
—Wm. Robinson .....	18 to 24 in.	1.00	
Double, violet-pink.	2 to 3 ft.	1.25	
LINDEN—American, <i>Tilia americana</i> , 60 to 80 ft..	5 to 6 ft.	2.00	
Large leaves. Splendid shade tree.	6 to 8 ft.	2.50	
LOCUST—Honey, Thornless, 60 to 70 ft. ....	3 to 4 ft.	.75	6.00
MAPLE—Hard or Sugar, 50 to 75 ft. ....	5 to 6 ft.	1.75	15.00
One of the best shade trees which colors bril-	6 to 8 ft.	2.50	24.00
liantly in fall.	8 to 10 ft.	3.50	33.00
	10 to 12 ft.	5.00	45.00

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
— <b>Norway, Acer platanoides</b> , 50 to 75 ft. ....	5 to 6 ft.	\$1.75	\$15.00
A splendid, dense, round-topped tree. Leaves	6 to 8 ft.	2.75	26.00
remain green till late.	8 to 10 ft.	4.00	36.00
	10 to 12 ft.	5.00	45.00
— <b>Tartarian, Acer ginala</b> , 10 to 15 ft. ....	18 to 24 in.	.75	6.00
Beautiful fine foliage, coloring most brilliant	2 to 3 ft.	1.25	10.00
in fall.	3 to 4 ft.	1.50	12.50
— <b>Schwedlers Purple Norway</b> , 40 to 60 ft. ....	5 to 6 ft.	4.00	
Large, bright purplish-red foliage in spring,	6 to 8 ft.	5.00	
later turning bronzy green.			
— <b>Striped, Acer Pennsylvanica</b> , 20 to 25 ft. ....	3 to 4 ft.	1.25	
Green bark, white stripes. Acid soil.			
— <b>Weirs Cut Leaved</b> , 50 to 60 ft. ....	4 to 5 ft.	1.25	
Finely cut-leaved form of the Soft Maple	5 to 6 ft.	1.50	
with drooping branches.			
<b>MOUNTAIN ASH—European</b> , 23 to 30 ft. ....	4 to 5 ft.	.75	6.00
Clusters of whitish flowers in spring are fol-	5 to 6 ft.	1.00	9.00
lowed by orange or red berries in fall.	6 to 8 ft.	1.50	12.50
Growth upright, leaves pinnate.	8 to 10 ft.	2.00	17.50
— <b>Oak Leaved</b> .....	6 to 7 ft.	2.00	
Similar to above except leaves.			
<b>MULBERRY—Russian</b> , 25 to 40 ft. ....	4 to 5 ft.	.50	4.00
Rapid growing. Edible fruit attracts birds.	5 to 6 ft.	.60	5.00
Used for windbreaks and hedges. See Forest			
Tree Seedlings.			
<b>OAK—Burr, Quercus macrocarpa</b> , 75 to 80 ft. ....	7 to 8 ft.	4.00	
Corky branches give it a picturesque appear-	8 to 10 ft.	5.00	
ance.	10 to 12 ft.	6.00	
— <b>Pin, Quercus palustris</b> , 70 to 90 ft. ....	4 to 5 ft.	1.50	12.50
Grows rapidly in moist soil. Leaves are re-	7 to 8 ft.	4.00	35.00
tained late and color splendidly.	8 to 10 ft.	5.00	45.00
<b>OLIVE—Russian</b> , 15 to 20 ft. ....	3 to 4 ft.	.60	5.00
Leaves and young growth covered with	4 to 5 ft.	.75	7.00
silvery scales. Fragrant yellow flowers. Makes	5 to 6 ft.	1.00	9.00
a good tall hedge.	6 to 7 ft.	1.25	11.00
<b>PERSIMMON</b> , from Iowa Seed, 12 to 15 ft. ....	3 to 4 ft.	1.00	9.00
Splendid dark green foliage, edible fruit in	4 to 5 ft.	1.50	12.50
late fall.	5 to 6 ft.	2.00	16.00
<b>PHILADELPHUS, Mockorange, Syringa.</b>			
— <b>avalanche, Dwarf Mockorange</b> , 4 to 5 ft. ....	18 to 24 in.	.50	4.50
Very fragrant. Gracefully arching.	2 to 3 ft.	.75	6.50
	3 to 4 ft.	.90	8.00
— <b>banniere</b> , 6 to 10 ft. ....	18 to 24 in.	.50	4.00
Semi-double, creamy-white flowers in early	2 to 3 ft.	.60	5.00
spring.	3 to 4 ft.	.75	6.00

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
--bouquet blanc, White Boquet Mockorange, 4 to 5 ft. ....	18 to 24 in.	\$ .75	\$7.00
Blooms freely in May-June.	2 to 3 ft.	1.00	8.00
--coronarius, Common Mockorange, 8 to 10 ft. ....	18 to 24 in.	.40	3.50
Single white fragrant flowers in great abun-	2 to 3 ft.	.50	4.50
dance in May-June.	3 to 4 ft.	.60	5.00
--nana, 4 ft. ....	18 to 24 in.	.75	6.00
A dwarf form of the above.	2 to 3 ft.	1.00	7.50
--aurea, Golden Mockorange, 4 to 5 ft. ....	12 to 15 in.	.60	5.00
A compact dwarf form with golden leaves.	15 to 18 in.	.75	7.00
	18 to 24 in.	1.00	9.00
--lemoine, Lemoine Mockorange, 4 to 5 ft. ....	18 to 24 in.	.50	4.50
Compact growing. Sweetly fragrant.	2 to 3 ft.	.60	5.50
--virginale, Virginale Mockorange, 7 to 8 ft. ....	18 to 24 in.	.75	7.00
Large, semi-double, fragrant flowers a long	2 to 3 ft.	1.00	9.00
time.			
PHOTINIA villosa, Christmas berry, 8 to 12 ft. ....	2 to 3 ft.	1.00	8.00
White flowers in June. Scarlet berries till	3 to 4 ft.	1.25	10.00
midwinter.			
PHYSOCARPOS opulifolia aurea, Golden	18 to 24 in.	.40	3.50
Ninebark, 9 to 10 ft. ....	2 to 3 ft.	.50	4.00
White flowers in spring. Red seed pods in	3 to 4 ft.	.60	5.00
fall. New growth pale golden yellow.	4 to 5 ft.	.90	8.00
--monogymus, Dwarf Colorado Ninebark, 4 to 6 ft.	18 to 24 in.	.50	4.00
Compact, fine twigged, small clear green	3 to 4 ft.	1.00	9.00
foliage.			
POPLAR—Carolina, 70 to 90 ft. ....	5 to 6 ft.	.40	3.00
A large, rapid-growing variety. Resembles	6 to 8 ft.	.50	4.00
Cottonwood but produces no seed.	8 to 10 ft.	.75	6.00
	10 to 12 ft.	1.00	9.00
--Lombardy, 50 to 70 ft. ....	5 to 6 ft.	.75	5.00
Strictly upright in habit. Branched to the	6 to 8 ft.	1.00	8.00
ground.	8 to 10 ft.	1.25	10.00
	10 to 12 ft.	1.50	14.00
POTENTILLA fruticosa, 1 to 4 ft. ....	12 to 18 in.	.40	3.00
Bright yellow flowers through the summer.	18 to 24 in.	.50	4.00
PRUNUS besseyi, Sand Cherry, 4 to 6 ft. ....	18 to 24 in.	.40	
A mass of white flowers in spring and black	2 to 3 ft.	.50	
plum-like fruit in fall.			
--cestena, Hansen's Purple Leaved Plum ....	3 to 4 ft.	1.00	9.00
Bright reddish-purple foliage throughout the	4 to 5 ft.	1.25	11.00
season. Purplish-pink blossoms.	5 to 6 ft.	1.50	12.50
--glandulosa, Flowering Almonds, 4 to 6 ft. ....	18 to 24 in.	.75	6.50
Double pink or white flowers before the	2 to 3 ft.	1.00	9.00
leaves.			

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
— <b>padus, May Day Tree</b> , 20 to 30 ft. ....	3 to 4 ft.	\$1.00	\$ 9.00
The very earliest tree to leaf out and finish growing. Must be planted early.	4 to 5 ft.	1.25	11.00
	5 to 6 ft.	1.50	14.00
— <b>pennsylvanica, Wild Bird or Pin Cherry</b> , 30 to 50 ft. ....	4 to 5 ft.	1.00	8.00
Bears clusters of bright red cherries very much liked by birds.	5 to 6 ft.	1.25	
— <b>serotina, Wild Black Cherry</b> , 40 to 60 ft. ....	4 to 5 ft.	1.00	8.00
Attractive flowers, fruit and fall coloring.	5 to 6 ft.	1.25	10.00
— <b>siberica, Siberian Almond</b> , 2 to 3 ft. ....	12 to 15 in.	.60	5.00
Single pink flowers very early.	15 to 18 in.	.75	7.00
— <b>subhirtella, sieboldi</b> and other Japanese Flowering Cherries can be supplied in limited quantities. Write for prices.			
— <b>tomentosa, Nanking Cherry</b> , 6 to 7 ft. ....	18 to 24 in.	.60	5.00
Pink buds and white flowers very early.	2 to 3 ft.	.75	6.50
Bright red edible cherries in June.	3 to 4 ft.	1.00	9.00
— <b>trilobi, Double Flowering Plum</b> , 7 to 8 ft. ....	18 to 24 in.	.60	5.00
Clear pink double flowers in April-May.	2 to 3 ft.	.75	6.50
Much admired by everyone.	3 to 4 ft.	1.00	9.00
<b>PTELIA trifoliata, Hop Tree</b> , 10 to 12 ft. ....	3 to 4 ft.	.75	6.00
Glossy, bright foliage with clusters of hop-like fruit. Moist soil.	4 to 5 ft.	1.00	9.00
	5 to 6 ft.	1.25	11.00
<b>QUINCE—Japanese Flowering, Cydonia Japonica</b> , 4 to 5 ft. ....	18 to 24 in.	.60	5.00
Scarlet flowers before the leaves.	2 to 3 ft.	.75	7.00
<b>RED BUD or Judas Tree, Cercis canadensis</b> , 12 to 15 ft. ....	18 to 24 in.	.50	4.00
Rose pink flowers in advance of the leaves.	2 to 3 ft.	.75	6.00
Likes rich soil. Somewhat tender while small.	3 to 4 ft.	1.25	11.00
	4 to 5 ft.	1.50	12.50
<b>RHODOTYPHUS kerroides, Jethead, White Kerria</b> , 3 to 6 ft. ....	18 to 24 in.	.60	5.50
Single white flowers. Black shining seeds.	2 to 3 ft.	.75	7.00
<b>ROSE ACACIA, Robinia hispida</b> , 5 to 6 ft. ....	18 to 24 in.	.60	5.00
Bright rose colored flowers on spreading bristly branches.	2 to 3 ft.	.75	6.00
	3 to 4 ft.	.90	8.00
— <b>Tree Form of above. Grafted on Locust stems</b> —	2 to 3 ft.	1.25	
It cannot sucker grown in this way, and becomes a neat globular head.	4 to 5 ft.	1.50	
	5 to 6 ft.	2.00	
<b>SHEPHERDIA argentea, Buffaloberry</b> , 12 to 15 ft.	3 to 4 ft.	1.00	
Silvery leaves. Scarlet or yellow berries.	4 to 5 ft.	1.50	
<b>SNOWBALL—See Viburnum opulis sterilis.</b>			

## DECIDIOUS TREES AND SHRUBS—Continued

SNOWBERRY, <i>Symphoricarpos racemosus</i> ,		Size	Each	Per 10
3 to 5 ft. ....	18 to 24 in.	\$ .40	\$3.00	
Endures much shade. Large white berries	2 to 3 ft.	.50	4.00	
in fall. Needs moisture.	3 to 4 ft.	.60	5.00	
— Red, <i>Symphoricarpos vulgaris</i> , Indian Currant,				
3 to 5 ft. ....	18 to 24 in.	.30	2.50	
Endures dense shade and dry soil. Covered	2 to 3 ft.	.40	3.00	
with small red berries in early winter.	3 to 4 ft.	.50	4.00	
SORBARIA <i>sorbifolia</i> , Ash Leaved Spirea, 2 to 4 ft.				
Splendid foliage and plumes of fluffy white	18 to 24 in.	.40	3.00	
flowers June-August.	2 to 3 ft.	.50	4.00	
SPIREA—Anthony Waterer, 2 to 3 ft. ....				
Very compact. New growth pinkish. Pink	12 to 15 in.	.40	3.50	
flowers all summer.	15 to 18 in.	.50	4.50	
	18 to 24 in.	.75	6.50	
— arguta, Garland Spirea, 5 to 6 ft. ....				
Small leaves. White flowers in May. Very	18 to 24 in.	.40	3.50	
early variety.	2 to 3 ft.	.50	4.50	
	3 to 4 ft.	.60	5.50	
— billardi, 4 to 6 ft. ....				
Bright pink fluffy flowers in spikes July-	18 to 24 in.	.40	3.50	
October. Endures dry soil. Upright.	2 to 3 ft.	.50	4.00	
	3 to 4 ft.	.60	5.00	
— callosa alba, Spirea Japonica, 2 to 3 ft. ....				
Similar to Anthony Waterer but with pink	12 to 18 in.	.40	3.00	
flowers.	18 to 24 in.	.50	4.50	
	2 to 2½ ft.	.65	6.00	
— froebelli, <i>S. bumaldi froebeli</i> , Froebel's Spirea,				
3 to 4 ft. ....	15 to 18 ft.	.30	2.50	
Resembles Anthony Waterer. More vigorous.	18 to 24 in.	.40	3.50	
Purplish-red fall color.	2 to 2½ ft.	.50	4.50	
— prunifolia, True Bridalwreath, 6 to 8 ft. ....				
Button-like double white flowers. May.	2 to 3 ft.	.50	4.50	
— richmensis, 4 to 5 ft. ....				
Branches arching. Resembles Billardi. Spikes	18 to 24 in.	.50		
larger, brighter colored.	2 to 3 ft.	.75		
— thunbergi, Thunberg Spirea, 3 to 4 ft. ....				
Fine feathery light green foliage. White	18 to 24 in.	.50	4.50	
flowers.	2 to 3 ft.	.60	5.50	
--- tricarpa, Korean Spirea, 5 to 7 ft. ....				
Similar to Van houtti. Larger, later.	12 to 18 in.	1.25		
	18 to 24 in.	1.50		
— van houtti, Van Houtte Spirea, 5 to 7 ft. ....				
Commonly called Bridalwreath. White	12 to 18 in.	.25	2.00	
flowers in May. Graceful habit. Thrives al-	18 to 24 in.	.30	2.50	
most anywhere.	2 to 3 ft.	.40	3.50	
	3 to 4 ft.	.50	4.50	
SUMAC—Aromatic, <i>Rhus canadensis</i> . 4 to 5 ft. ....				
Fragrant sumac. Beautiful aromatic leaves.	12 to 18 in.	.50	4.00	
Coral-red fruits in June. Endures drouth.	18 to 24 in.	.75	6.50	
Brilliant fall colors.	2 to 3 ft.	1.00		

## DECIDUOUS TREES AND SHRUBS—Continued

	Size	Each	Per 10
— <b>Cut Leaved Staghorn, <i>Rhus typhina lacinata</i></b> .....	12 to 18 in.	\$ .30	\$2.50
Twigs velvety; foliage very finely cut. May	2 to 3 ft.	.50	4.50
be trained into a tree 16 ft.	3 to 4 ft.	.75	7.00
<b>SYCAMORE—American, <i>Platanus occidentalis</i></b> .....	4 to 5 ft.	.90	8.00
A large tree with grayish-green, smooth bark.	5 to 6 ft.	1.25	10.00
Large leaves. Splendid shade tree.	6 to 8 ft.	1.75	15.00
<b>TAMARIX pentrandra, Blue-Green Tamarix.</b>			
4 to 8 ft. ....	18 to 24 in.	.40	3.00
Fine feathery blue-green foliage. Racemes	2 to 3 ft.	.50	4.00
of delicate pink flowers.	3 to 4 ft.	.60	5.00
	4 to 5 ft.	.75	6.50
<b>THORN—Pauls Double Scarlet, 12 to 15 ft.</b> .....	4 to 5 ft.	2.50	
Double crimson flowers.	5 to 6 ft.	3.00	
— <b>Thicket, <i>Crataegus coccinea</i>, 12 to 18 ft.</b> .....	3 to 4 ft.	1.25	10.00
White flowers, red fruits, long spines.	4 to 5 ft.	1.50	12.50
<b>VIBURNUM carlesii, Fragrant V., Carles V,</b>			
4 to 6 ft. ....	12 to 15 in.	2.00	
Cymes of deep pink buds opening pink and	15 to 18 in.	2.50	
fading to white. Very fragrant, April.	18 to 24 in.	3.00	
Blooms young. Very choice.			
— <b>cassinoides, Witherod, 5 to 7 ft.</b> .....	18 to 24 in.	.80	
Cymes of creamy-white flowers. Berries	2 to 3 ft.	1.00	
green then pink and blue-black. Fall foliage			
most brilliantly colored.			
— <b>dentatum, Arrowwood, 5 to 6 ft.</b> .....	12 to 18 in.	.30	2.50
Upright branches. Good foliage with fine	18 to 24 in.	.40	3.50
fall coloring. White flowers. Berries small	2 to 3 ft.	.50	4.50
black, much liked by birds in Sept.	3 to 4 ft.	.60	5.50
— <b>lantana, Wayfaring Tree, 10 to 15 ft.</b> .....	12 to 18 in.	.50	4.00
Flowers in flat clusters in June-July. Fruit	18 to 24 in.	.60	5.00
red changing to black. Leaves very thick,	2 to 3 ft.	.75	7.00
wrinkled, remain green till late.	3 to 4 ft.	1.00	9.00
— <b>lentago, Nannyberry, Sweet V. up to 30 ft.</b> .....	18 to 24 in.	.60	5.00
Good foliage, large cymes of white flowers.	2 to 3 ft.	.75	7.00
Edible black berries. Likes moist soil.			
— <b>opulus, High Bush Cranberry, 6 to 10 ft.</b> .....	18 to 24 in.	.75	7.00
The fruiting form of the common Snowball.	2 to 3 ft.	1.00	9.00
Bright scarlet berries in late summer and	3 to 4 ft.	1.25	11.00
fall.	4 to 5 ft.	1.50	12.50
— <b>opulus sterilis, Snowball, 5 to 8 ft.</b> .....	12 to 18 in.	.40	3.50
An old, well known shrub. Large balls of	18 to 24 in.	.60	5.50
white flowers, producing no fruit or seeds.	2 to 3 ft.	.75	7.00
	3 to 4 ft.	1.00	8.50
<b>VITEX marocephala, Chaste-tree, 3 to 4 ft.</b> .....	2 yr. plants	.90	
Lavender-blue racemes, July-October. Needs			
goods protection.			

## DECIDUOUS TREES AND SHRUBS—Continued

		Size	Each	Per 10
<b>WEIGELIA</b> —Eva Rathke, Red Flowered Weigelia				
4 to 6 ft.	Rich reddish-purple flowers June-August.	2 to 3 ft.	\$ .75	\$7.00
— rosea, Pink Weigelia, 4 to 6 ft.				
18 to 24 in.	Mass of pink in June. Needs protected place.	2 to 3 ft.	.40	3.50
			.50	4.50
<b>WILLOW</b> —Laurel Leaved, <i>Salix pentandra</i> ,				
20 to 30 ft.	Broad shining dark green leaves. Wide branching.	5 to 6 ft.	.75	6.00
		6 to 8 ft.	1.00	8.00
— Niobe Weeping, 40 to 50 ft.				
3 to 4 ft.	Golden Yellow bark; long pendulous branches. Strikingly beautiful at all seasons.	5 to 6 ft.	.50	4.50
		6 to 8 ft.	.90	8.00
			1.25	11.00
— Pussy, <i>Salix caprea</i> , 10 to 20 ft.				
3 to 4 ft.	Good foliage. Large, silvery pink catkins with yellow stamens in early spring. Fine for forcing.	4 to 5 ft.	.75	6.50
		5 to 6 ft.	.90	7.50
			1.25	10.00
— Ural, Siberian Hedgewood, 4 to 6 ft.				
18 to 24 in.	Fine reddish twigs, bluish-green leaves.	2 to 3 ft.	.40	3.00
			.50	4.00
<b>WITCH HAZEL</b> , <i>Hamamelis virginiana</i> .				
10 to 12 ft.	Interesting yellow flowers in October-November. Best in moist, half-shady places.	2 to 3 ft.	.75	7.00

## HEDGE PLANTS

(See also Arborvitae and Spruce under Evergreens, and Russian Mulberry under Forest Seedlings)

**BARBERRY**—Japanese, *Berberis thunbergii*. Brilliant red berries and fall foliage. An unexcelled thorny hedge plant for trimmed or untrimmed hedge.

	Size	Each	Per 10	Per 100
Seedlings	6 to 9 in.	—	—	\$ 5.00
Seedlings	8 to 12 in.	—	—	7.00
2-year branched	12 to 15 in.	\$0.25	\$2.00	15.00
2-year branched	15 to 18 in.	.30	2.50	20.00
Heavy 3-year	18 to 24 in.	.40	3.50	25.00
Heavy 3-year	2 to 2½ ft.	.50	4.50	35.00
Heavy 3-year	2½ to 3 ft.	.60	5.50	45.00

**PRIVETS**, *Ligustrum*

— Amur River North, 12 to 14 ft.				
12 to 18 in.	Upright growing. Privets are best for closely trimmed hedges.	.20	1.50	10.00
		.25	2.00	15.00
		.30	2.50	20.00
— Itoya, 9 to 10 ft.				
18 to 24 in.	Tall, much branched.	.25	2.00	17.50
		.35	3.00	25.00
		.45	3.50	32.00
— Polish, European, <i>L. vulgare</i> ,				
10 to 12 ft.	Upright, hardy, retains its foliage uncolored very late.	.20	1.50	10.00
		.25	2.00	15.00
		.35	2.50	20.00
		.40	3.50	30.00
— Regals, True Type, 5 to 6 ft.				
12 to 18 in.	Low, dense shrub, horizontal branches.	.30	2.50	20.00
		.40	3.50	25.00
		.50	4.50	35.00

## ROSES

All plants offered are two-year field-grown bushes. One-half or more of the tops should be cut off and the bushes planted deeper than they stood in the Nursery.

### CLIMBING ROSES

(All need winter protection except as noted)

- ALIDA LOVETT, 75c:** Bright shell pink, yellow base.
- AMERICAN PILLAR, 75c:** Immense clusters; large, single; bright crimson, lighter center.
- BALTIMORE BELLE, 50c:** Blush-white, an old favorite, rather tender.
- CRIMSON RAMBLER, 50c:** Bright red, large clusters, the most popular climber.
- CLIMBING AMERICAN BEAUTY, 75c:** Large rich carmine, somewhat fragrant.
- DR. VAN FLEET, 75c:** Light pink, perfectly formed, pointed buds, long stems.
- DOROTHY PERKINS, 50c:** Delicate pink, large clusters, vigorous and healthy.
- EXCELSA, Red Dorothy Perkins, 50c:** Lighter red than Crimson Rambler, but more vigorous.
- FLOWER OF FAIRFIELD, 75c:** The so-called ever-blooming crimson Rambler.
- HEART OF GOLD, 90c:** Single velvety crimson with bright golden stamens.
- HIAWATHA, 50c:** Single, deep crimson with yellow center, very fragrant.
- LADY DUNCAN, 90c:** Pure pink, cross of *Rosa Rugosa* and *Rosa Wichuriana*.
- MARY WALLACE, 75c:** Semi-double rose-pink, salmon base.
- MAX GRAF, 90c:** Large single shining pink, climbing rugosa. Excellent ground and rock cover, needs no protection.
- PAUL'S SCARLET, 90c:** Large, bright, pure red, semi-double, in clusters.
- PRAIRIE QUEEN, 50c:** Large globular, bright pink, one of the hardiest climbers.
- ROSA SETIGERA, 50c:** The wild prairie rose, single pink flowers and bright red hips.
- ROSIERE, 75c:** A darker colored Tausendschon, or Thousand Beauties.
- SILVER MOON, 90c:** Silvery white with yellow stamens, quite tender.
- TAUSENDSCHON, 75c:** Large clusters ranging from bright pink to pure white.
- WHITE DOROTHY PERKINS, 50c:** The hardiest pure white climbing rose.
- WICHURIAN, Memorial, 50c:** Glossy foliage with very fragrant, creamy white flowers, prostrate grower.

### HARDY ROSES

(Varieties which need no winter protection in Central Iowa)

- CABBAGE, 50c:** Large, double, fragrant pink flowers in June only.
- GROOTENDORST, 90c:** Hybrid of *Rugosa* X *Baby Rambler*; semi-double, small fringed, bright red roses in clusters produced continually. Perfectly hardy, good hedge variety.
- HARRISON YELLOW, 90c:** Small bright yellow, early in spring, perfectly hardy.
- HENRI MARTIN, 75c:** Rosy red, mossed heavily, fragrant.
- HUGONIS, 90c:** 5 to 7 ft. A tall, graceful, spring flowering shrub with small leaves and masses of pale yellowish single flowers.
- KAMCHATKA, 75c:** Double, red form of *Rosa Rugosa*, less attractive bush.
- MAD. PLANTIER, 50c:** Pure white, almost thornless, blooms in spring only.
- PARFUM DE L'HAY, 90c:** Bright red, double, rugosa hybrid.
- PERSIAN YELLOW, 90c:** Deepest yellow, Austrian Brier.
- ROSA blanda, 75c:** 4 to 5 ft. Single pink, splendid shrub, bright red hips.
- ROSA lucida, 75c:** Bright pink, 5 to 6 ft., shining foliage, bright red hips.
- ROSA multiflora cathayensis, one-year plants, 50c:** Clusters of soft pink single roses, very vigorous and hardy.

## ROSES—Continued

- ROSA rubrifolia**, 75c: A shrubby, 5 to 6 ft. perfectly hardy bush with reddish foliage, pink flowers, and a profusion of red hips, prefers partial shade.
- ROSA rugosa**, 75c: 5 to 7 ft., single, large bright red; wrinkled, tough foliage; continuous bloomer, very large crimson hips. Good shrub or hedge plant.
- ROSA rugosa alba**, 75c: 4 to 5 ft., white form of *Rosa rugosa*.
- SALET**, 75c: Moss, large full rose pink.
- SEVEN SISTERS**, 50c: Double, large, varying from light red to white.
- SWEET BRIAR**, 90c: Pink flowers, fragrant foliage.
- WHITE MOSS**, 75c: Large, pure white, fragrant, heavily mossed.

## OTHER ROSES

H. T. means Hybrid Tea; H. P. means Hybrid Perpetual. All these should have winter protection. The Baby Ramblers and H. T.'s are the most constant bloomers.

**AMERICAN BEAUTY**, 90c: H. P., large globe shaped, crimson.

**BABY RAMBLERS**, Polyanthas.

## Named Varieties:

- Clotilde Soupert**, 90c: Very full, pearly white shaded pink.
- Gruss an Aachen**, 90c: Very large, light rose overlaid with yellow.
- Jessie**, 90c: Glowing crimson with white eye.
- Lafayette**, 90c: Large, brilliant cherry-crimson flowers continuously.
- Orleans**, 90c: Geranium red with rose tint.
- BETTY UPRICHARD**, 90c: H. T., semi-double, large, ruffled. Outside of petals brilliant orange-carmine, inside soft salmon.
- COLUMBIA**, 90c: H. T., large, fragrant, continuous blooming, bright pink.
- CONRAD F. MEYER**, 90c: Hybrid Rugosa, delicate pink, tall upright grower.
- EDWARD MAWLEY**, 90c: H. T., very dark velvety crimson, most fragrant.
- ETOILE De FRANCE**, 90c: H. T., large cupped, velvety crimson, very fragrant.
- FRAU KARL DRUSCHKI**, 75c: H. P., the very purest white, continuous bloomer.
- GEN. JACQUEMINOT**, 75c: H. P., scarlet-crimson, early and fragrant.
- GEN. McARTHUR**, 90c: H. T., sweetly scented, brilliant crimson scarlet, very free bloomer.
- GEO. ARENDS**, 75c: H. P., large, fragrant, pink, called "Pink Druschki," excellent.
- GRUSS AN TEPLITZ**, 90c: H. T., clear crimson-scarlet, the most continuous bloomer.
- J. B. CLARK**, 75c: H. P., very large, intense scarlet; vigorous grower.
- JOHN HOPPER**, 75c: H. P., large rosy red, fragrant, medium grower.
- KAISERIN AUGUSTA VICTORIA**, 90c: H. T., creamy white, fragrant, very fine form.
- LADY HILLINGDON**, 90c: H. T., long pointed buds opening apricot yellow.
- LOLITA ARMOUR**, 90c: H. T., large, fragrant, chrome-yellow at base shading to bright salmon.
- LOS ANGELES**, 90c: H. T., coral pink shaded coppery gold, moderately hardy.
- LUXEMBURG**, 90c: H. T., large, rich coppery yellow, vigorous and free blooming.
- MAGNA CHARTA**, 75c: H. P., very large, rosy pink, tinted carmine.
- MRS. CHAS. BELL**, 90c: H. T., like Radiance except that it is a very delicate light salmon pink.
- MRS. HENRY BOWLES**, 90c: H. T., a new rose, deep salmon pink. Very vigorous and productive.
- MRS. HENRY MORSE**, 90c: H. T., delicate shades of pink.
- MRS. JOHN LAING**, 75c: Large, soft pink, pointed buds, vigorous grower.

## ROSES—Continued

- MME. BUTTERFLY**, 90c: H. T., a more brilliant Ophelia, continuous bloomer.  
**OPHELIA**, 90c: H. T., salmon-flesh, fragrant, long stems, very productive.  
**PAUL NEYRON**, 75c: H. P., very largest, clear pink, fragrant, thornless.  
**PRINCE CAMILLE De ROHAN**, 75c: H. P., dark blood red, large, fragrant, rather weak grower.  
**RADIANCE**, 90c: H. T., fine salmon pink, long stems, very productive.  
**RED RADIANCE**, 90c: H. T., deep red, finest form, extremely productive.  
**ROSE MARIE**, 90c: H. T., clear rose pink, long pointed buds.  
**SUNBURST**, 90c: H. T., bright orange-yellow with paler edge.  
**SOLIEL D' OR**, 90c: Orange yellow varying to ruddy gold, not continuous.  
**SOUV. D' CLAUDIUS PERNET**, 90c: Per., H. T., deep yellow, considered the best deep yellow rose.  
**ULRICH BRUNER**, 75c: H. P., large, fragrant, cherry red, vigorous.  
**WILLOWMERE**, 90c: Per., very large, double, rich shrimp pink shaded yellow.

## CLIMBING VINES

(The No. 1 grade are heavy two or three year plants and the medium grade good but lighter plants)

	Size	Each	Per 10
<b>AMPELOPSIS—englemanni</b> , Engleman Ivy .....	No. 1	\$0.50	\$4.00
Hardest vine clinging to smooth walls.	Medium	.35	2.50
— <b>veitchii</b> , Boston Ivy .....	No. 1	1.00	9.00
Very refined but less hardy.	Medium	.60	5.00
<b>ARISTOLOCHIA</b> , Dutchman's Pipe .....	No. 1	1.25	—
Large leaved form.			
<b>BITTERSWEET—American</b> , <i>Celastrus scandens</i> .....	No. 1	.50	4.50
Well known native twining vine; large red and orange berries.	Medium	.35	2.50
— <b>Oriental</b> , <i>Celastrus orbiculatus</i> .....	No. 1	.50	4.50
Similar to above. Very fruitful.	Medium	.35	2.50
<b>CLEMATIS</b> . All like cool, well drained, moist, limestone soil, in sun.			
— <b>henryi</b> . Large, creamy white .....	No. 1	1.25	—
— <b>jackmanni</b> . Large, violet purple .....	No. 1	1.25	—
— <b>Mad. Ed. Andre</b> . Large, velvety red .....	No. 1	1.25	—
— <b>paniculata</b> , Japanese Clematis .....	No. 1	.50	4.50
Great masses of small fragrant white flowers in September. Hardest of all.	Medium	.30	2.50
— <b>texensis</b> , <i>coccinea</i> .....	No. 1	.50	4.50
Carmine, fleshy, bell-shaped flowers. June till frost.			
<b>HONEYSUCKLE—Scarlet Trumpet</b> , <i>Lonicera sempervirens</i> .....	No. 1	.50	4.00
Almost evergreen. Long coral red flowers continuously.	Medium	.30	2.50

## CLIMBING VINES—Continued

	Size	Each	Per 10
— Halls, <i>Lonicera japonica halliana</i> .....	No. 1	\$ .50	\$4.00
White changing to yellow, fragrant. June-Sep- tember.	Medium	.35	2.50
<b>HOP VINE</b> —Common, <i>Humulus lupulus</i> .....	No. 1	.50	4.50
<b>MATRIMONY VINE</b> , <i>Lycium barbarum</i> .. Red fruits..	No. 1	.50	4.50
<b>TRUMPET VINE</b> , <i>Bignonia radicans</i> .....	No. 1	.50	4.50
Large red and orange trumpets through summer.			
<b>WISTARIA</b> —Chinese, <i>Wistaria sinensis</i> .			
— Purple. Long bunches of bluish-purple, May.....	No. 1	.50	4.50
— White. A white flowered form .....	No. 1	.60	5.00

## PEONIES

We do not keep a stock of the more expensive varieties in storage for spring planting, so any late order for them will be held till fall, which is the best time to plant peonies.

Prices are for standard divisions of 3 to 5 eyes or buds. Undivided clumps figured on this basis.

**ASA GRAY**, \$1.00: Semi-rose type, mid-season, pink with carmine dots.

**ADOLPHE ROSSEAU**, \$1.25: Semi-double, early, brilliant red.

**AGNES M. KELWAY**, 40c: Crown type, early, pale rose with creamy center.

**AVALANCHE**, 75c: Crown type, late, very fine milk white.

**AUGUSTIN D'HOUE**, 75c: Bomb type, tall, mid-season, rich scarlet purple.

**BARONESS SCHROEDER**, \$1.25: Rose type, late, flesh color fading white.

**COUROUTE D'OR**, 50c: Semi-rose type, late, white with yellow stamens.

**CLAIRE DUBOIS**, \$1.00: Rose type, tall, late, fine pink with glossy reflex.

**DELACHEL**, 75c: Rose type, late, brilliant dark maroon.

**DENIS HELYE**, 50c: Semi-rose type, mid-season brilliant red.

**EDULIS SUPERBA**, 50c: Crown type, very early, bright pink.

**ENCHANTRESSE**, \$5.00: Rose type, very late, creamy white.

**ELWOOD PLEAS**, \$2.50: Rose type, late mid-season, tall, light shell-pink.

**FESTIVA MAXIMA**, 50c: Rose type, early, pure white, tipped carmine.

**FRANCOISE ORTEGAT**, 75c: Semi-rose type, mid-season, deep crimson.

**FELIX CROUSSE**, 75c: Rose type, late mid-season, bright ruby red.

**FRAGRANS**, 40c: Bomb type, mid-season, deep pink.

**GOLDEN HARVEST**, 40c: Bomb type, mid-season, pink, creamy white center.

**GRANDIFLORA**, 50c: Rose type, late, very bright pink.

**GROVER CLEVELAND**, \$1.00: Rose type, late, large, dark crimson.

**H. F. REDDICK**, \$1.00: Semi-rose type, mid-season, brilliant crimson.

**JENNY LIND**, 75c: Bomb type, tall, mid-season, light pink interspersed with white.

**JUBILEE**, \$3.00: Rose type, very tall, white with delicate pink center.

**KARL ROSENFELD**, \$1.25: Semi-rose type, mid-season, rich blood red.

**KELWAYS GLORIOUS**, \$12.50: White, very early, lasting, very finest kind.

**LE CYGNE**, \$10.00: Rose type, pure white, has the very highest rating.

**LADY ALEXANDER DUFF**, \$3.00: Rose type, early, pink fading white.

## PEONIES—Continued

- LATULIP, 50c:** Semi-rose type, flesh pink fading white, red markings.  
**L' ESPERANCE, 50c:** Rose type, very early, rose pink.  
**LIVINGSTONE, 75c:** Rose type, late, deep pink, fine cut flower.  
**LONGFELLOW, \$3.50:** Semi-rose type, the most brilliant red.  
**LOUIS VAN HOUTTI, 75c:** Semi-rose type, bright violaceous red.  
**LORA DEXHEIMER, \$2.50:** Semi-rose type, intense crimson, early.  
**MARIE LEMOINE, \$1.00:** Rose type, very late, ivory white.  
**MARTHA BULLOCK, \$7.50:** Rose type, tall, very large rosy pink.  
**MAD. CHAUMY, 40c:** Rose type, very late, bright rose.  
**MARECHAL VALLIANT, 50c:** Rose type, very large, late, purplish red.  
**MILTON HILL, \$3.50:** Globular, compact, rose type. Late, pale lilac-rose.  
**MIREILLE, \$1.00:** Rose type, very late, milk white.  
**MAD. DE VERNEVILLE, 50c:** Bomb type, mid-season, white, very choice.  
**MAD. EMILE GALLE, \$1.00:** Rose type, late, pale pink, shaded lilac-rose.  
**MON. JULES ELIE, \$1.00:** Bomb type, mid-season, glossy pink, extra fine.  
**MONS. MARTIN CAHUZAC, \$2.50:** Semi-rose type, early, darkest deep maroon.  
**MODISTE GUERIN, 75c:** Bomb type, mid-season, deep lustrous pink.  
**MRS. ED. HARDING, \$12.50:** Large, white, early, tall, stiff stems.  
**OFFICINALIS RUBRA PLENA, \$1.00:** Very earliest, bright crimson.  
**OFFICINALIS ROSEA, \$1.50:** Very earliest, rose pink.  
**OFFICINALIS TENUIFOLIA, \$1.50:** Fern leaved, very earliest, bright crimson.  
**PASTEUR, \$2.00:** Rose type, mid-season, very soft pink.  
**PRES. ROOSEVELT, \$1.00:** Semi-rose type, mid-season, deep red.  
**PRIMEVERE, \$3.00:** Bomb type, mid-season, tall, creamy yellow.  
**RACHEL, 75c:** Rose type, mid-season, brightest ruby red.  
**RICHARD CARVEL, \$4.00:** Bomb type, early, very bright crimson.  
**ROSA BONHEUR, \$4.50:** Rose type, dwarf, light violet rose flecked crimson.  
**RUBRA TRIMPHANS, 50c:** Semi-double, early, red with yellow stamens.  
**SARAH BERNHARDT, \$2.00:** Very large soft pink, vigorous and productive.  
**SOLANGE, \$3.50:** Rose type, mid-season, white shaded salmon.  
**THERESE, \$3.50:** Rose type, mid-season, delicate satiny pink.  
**TOURANGELLE, \$3.00:** Rose type, late, creamy buff with salmon tints.  
**WALTER FAXSON, \$3.00:** Semi-rose type, mid-season, distinct bright salmon rose.

## SINGLE AND JAPANESE VARIETIES

- AKALU, \$2.00:** Japanese, carmine red with center saffron yellow, striped carmine.  
**ANOMALE, \$2.00:** Single, bright red, very earliest.  
**GERALDINE, \$1.50:** Japanese, deep carmine violet.  
**KING OF ENGLAND, \$4.00:** Japanese, rich ruby-red with narrow golden center petals.  
**MIKADO, \$2.00:** Japanese, dark crimson with center crimson, tipped gold.  
**SNOW WHEEL, \$4.00:** Japanese, pure white throughout.  
**STANLEY, \$1.00:** Single, large, dark brilliant crimson.  
**SINGLE RED, 50c:** Unnamed, very early.  
**THE BRIDE, \$1.25:** Single, large, white with yellow center.

## IRIS

Iris may be planted almost any time, but preferably not at, or just previous to blooming time. Iris should be planted very shallow and on dry, well drained, neutral or limestone soil, except the Siberian varieties and other fibrous rooted kinds, which endure moisture and more acid soil. The effect is better if a group of one kind or color is planted rather than single plants of many colors.

### Quantity Rates. Kinds priced at:

10c each are	\$0.60 per 10 and	\$ 4.00 per 100 fans
15c each are	.80 per 10 and	6.00 per 100 fans
20c each are	1.00 per 10 and	8.00 per 100 fans
25c each are	1.50 per 10 and	12.00 per 100 fans

S. denotes standards, the upright part of the flower; and F., falls.

**DWARF IRIS**, very early, fine for borders and rockeries.

Cyanea, 10c: S., rich blue; F., dark satiny purple, 6 inches high.

Schneekuppe, 30c: S. and F., pure white, 6 to 10 inches, very fine.

Excelsa, 25c: S. and F., deep clear yellow, 8 inches.

**INTERMEDIATE IRIS**: Intermediate in height and season of blooming.

Helge, 15c: S. and F., lemon yellow with pearl shadings, large.

Ingeborg, 25c: S. and F., very fine, large, pure white.

Walhalla, 15c: S., light blue; F., velvety violet purple.

Maori King, 25c: S., richest golden yellow; F., velvety maroon.

**TALL BEARDED IRIS**:

Afterglow, 45c: S. and F., delicate greyish pink shaded yellow.

Archeveque, 40c: S., deep violet purple; F., rich velvety violet.

Blue Jay, 30c: S., clear blue; F., dark blue.

Celeste, 25c: S. and F., clear azure blue.

Dalila, 40c: S., coppery bronze; F., velvety crimson.

Darius, 20c: S., canary yellow; F., lilac margined white.

Dr. Bernice, 20c: S., coppery bronze; F., velvety crimson.

Flavescens, 15c: S. and F., pale sulphur yellow, sweetly scented.

Gypsy Queen, 15c: S., old gold shaded pearl; F., reticulated maroon.

Her Majesty, 25c: S. and F., rose pink.

Hiawatha, 30c: S., pale lavender; F., royal purple.

Honorabilis, 10c: S., golden yellow; F., brownish mahogany.

Johan de Witte, 10c: S., bluish violet; F., deep violet veined white.

Juniata, 25c: S., arching; F., flaring, clear blue throughout.

Kermesiana, 15c: Claret red, marked, medium size, endures moisture.

Kochi, 15c: S. and F., rich blackish purple, very large and fine.

Latendresse, 10c: S. and F., ageratum blue throughout.

Lent A. Williamson, 75c: S., lavender violet; F., royal purple.

Loreley, 20c: S., light yellow; F., blue bordered cream.

Mariposa, 60c: S., French gray; F., flaked purple.

Mary Garden, 25c: S., pale yellow flushed lavender; F., creamy dotted.

Mad. Chereau, 10c: S. and F., white, frilled pale blue, tall and late.

Mad. Pacquette, 20c: S. and F., bright rosy claret, ruffled, tall.

Midwest, 60c: S. and F., ruffled, dotted, and blushed rose on a white ground.

Mother of Pearl, 60c: S. and F., pale bluish lavender, delicately tinted.

Monsignor, 25c: S., deep violet; F., purplish crimson, veined darker.

Morning Splendor, \$2.50: S., rich red violet; F., darker. Claimed to be the best

American Iris.

Mrs. H. Darwin, 15c: S. and F., pure white with purplish veins.

Nibelungen, 25c: S., fawn; F., violet purple, veined purple.

Nokomis, 30c: S., pale lavender white; F., deep violet blue.

Pallida Delmatica, 30c: S. and F., light lavender violet.

Parc de Neuilly, 30c: S. and F., rich plum purple, large.

Perfection, 25c: S., light blue; F., dark violet.

Princess Beatrice, 50c: A selected variety of Pallida Delmatica.

Princess Victoria Louise, 25c: S., sulphur yellow; F., rich plum bordered cream.

Prosper Laugier, 30c: S., light bronze red; F., velvety Bordeaux.

## IRIS—Continued

- Quaker Lady, 40c: S., smoky lavender; F., ageratum blue and old gold.  
 Queen Alexandria, 25c: S., fawn overcast lilac; F., lilac.  
 Queen of the Gypsies, 10c: S., bronze; F., purplish red.  
 Rheine Nixe, 20c: S., clear white; F., violet blue, edged white.  
 Shekinah, 60c: S. and F., beautiful soft yellow, tall.  
 Sherwin Wright, 25c: S. and F., golden yellow.  
 Silver King, Florentina, 15c: S. and F., white slightly tinted lavender.  
 Souvenir De Mme. Gandichau, \$1.00: S. and F., brilliant black purple.  
 Storm Cloud, 30c: S., slaty-grey; F., purplish; very large.  
 Swatara, 50c: S., lobelia blue suffused yellow; F., violet.  
 White Knight, 75c: S. and F., pure white, late.  
 Zua, 40c: S. and F., delicate lavender white, ruffled like fine crepe.
- SIBERIAN AND OTHER IRIS**, mostly dislike lime:
- Blue King, 15c: Siberian, clear blue with very delicate markings.  
 Cristata, 25c: Creeping, 3 in., rich blue, for the rockery, acid soil.  
 Dichotoma, Vesper Iris, 25c: 2 to 3 ft., much branched stems, light lavender flowers in afternoons for four weeks in August or September.  
 Distinction, 25c: Siberian, rich blue with white veining, 3 ft.  
 Emperor, 50c: Siberian, deep violet-blue, large circular falls.  
 Geo. Wallace, 30c: Siberian, S., azure blue; F., marked white. Very narrow upright foliage, most attractive.  
 Longipetala Superba, 30c: Dainty lavender.  
 Lord Woolsey, 40c: Very tall, large, deep purple.  
 Mahogany, 40c: Japanese, dark purplish, six petals.  
 Orientalis, 15c: Siberian, similar to Blue King, but a little darker.  
 Orientalis Gigantea, 50c: Ivory white, very tall.  
 Pseudacorus, 30c: Wild, yellow, for the waterside.  
 Snow Queen, 25c: Siberian, ivory white with yellowish throat.  
 True Blue (Fryer's), 30c: A selected blue form of the Siberian Iris.  
 Japanese Unnamed, 25c: Colors unknown, grown from seed.  
 Zamo-no-mori, 40c: Japanese, white margined blue.

## OTHER HARDY PERENNIALS

The measure given is the average height, and the dates, the blooming period. Most perennials can be moved well either fall or spring, and many of them through the summer. Prices, unless otherwise given: Field-grown plants, 25c each, \$2.40 per dozen, \$15.00 per 100—3 or more of one kind at dozen rates, and 25 or more at hundred rates.

- ACHILLEA**, Milfoil, Yarrow. Thrive in any soil in sun.  
 — *eupatorium*, filipendulina, 3 to 4 ft. Bright yellow, June-July.  
 — *milfolium roseum*, 1 to 2 ft. Rosy-pink. June-September.  
 — *ptarmica*, Mt. Blanc, 1 to 2 ft. Pure white, much superior to the Pearl. June-September.  
 — *tomantosa*, Woolly Yarrow, 6 in. Sulphur yellow. June.
- AEGOPODIUM** *podagraria*, Bishop's Weed, 1 ft. Variegated foliage, green and yellow. Useful for waste places, and borders. Any soil, shade or sun.
- AGROSTEMMA** *coronaria*, Rose Champion, Mullein Pink, 2 ft. Sandy soil. Tufts of silvery foliage and single velvety red flowers. June-July.
- ALYSSUM** *saxatile*, Basket of Gold, 1 ft. Sunny, well drained limestone soil; bright yellow, April-May. Fine for rockeries or borders.
- ANCHUSA** *italica* Dropmore, 4 ft., branching; blue, June-September. Moist soil in sun.
- ANEMONE** *hupehensis*, 35c: 1 to 2 ft. Large pale mauve flowers, August-October. Moist, sandy, rich soil. Transplant in spring.
- ANTHEMUS** *tinctoria*, Golden Margueriate, 1 to 2 ft. Golden yellow. June-October.

## OTHER HARDY PERENNIALS—Continued

- AQUILEGIA**, Columbines. Not particular as to soil; endure some shade. Grown from seed, they are variable. Colors can not be guaranteed.
- *chrysantha*, 2 to 3 ft. Yellow shades, long spurs, long blooming season.
  - *coerulea*, Rocky Mt. Columbine, 2 ft. White and blue. May-June.
  - *canadensis*, American Columbine, 2 ft. Scarlet and orange. May-June.
  - *Helenae*, 1 ft. Pale blue and white. May-June.
  - *flabellata*, 1 ft. Pure white, early. Large dense foliage.
  - Long Spurred Hybrids. Many colors and types. May-June.
  - *skinneri*, 2 to 3 ft. Mexican Columbine. Combination crimson, green and yellow.
- ARABIS** *alpina*, Rock Cress, 6 in. Mass of white. April-May. Sun.
- ARENARIA** *caespitosa*, Moss Sandwort. Dense tufts. 2 in. Tiny white flowers.
- *grandiflora*. Trailing. White flowers in May. Fine for rockery.
- ARTEMESIA** *abrotanum*, Southernwood, 2 to 3 ft. Finely cut, green, scented foliage.
- *lactifolia*, 3 to 4 ft., branching. Heads of grayish white fragrant flowers.
  - Silver King, 30c. Ghost Plant, 3 ft. Frosted silvery foliage and flowers. Dense branching habit. Very conspicuous all summer. Dries well.
  - *frigida*, ½ to 1½ ft. Very fine silky white foliage, flowers yellowish.
- ASCLEPIAS** *tuberosa*, Butterfly Weed, 2 to 2½ ft. Umbels of bright orange flowers in July and August. Sunny, dry soil. Very showy plant.
- ASPERULA** *odorata*, Sweet Woodruff, 6 to 8 in. White flowers April-May.
- ASTERS**—*Abendrothe*, 30c: 3 to 4 ft. Violet-rose. September.
- *Elta*, 30c: 4 ft. Semi-double, light lavender, September.
  - *Nova-angliae*, Barrs Pink, 35c: 4 to 5 ft. Bright pink. September.
  - *Nova-angliae*, *roseum superbum*, 35c: 4 to 5 ft. Almost red. September.
  - Little Boy Blue, 35c: 2 ft. Fine rich blue. August-September.
  - *Sub-coerulea*, Alpine Aster. 1 ft. Bluish-violet with golden center. June. Fine for rockery or border, any situation.
- ASTILBE**, *Spirea*. Rich, moist soil and part shade, preferred.
- *America*, 40c: Spikes of deep pink. June-July.
  - *Meta Immink*, 50c: 3 to 4 ft. Dense spikes of clear pink. June-July.
- BAPTISIA** *australis*, False Indigo. 2 to 3 ft. Dark blue pea-shaped flowers in 6 in. spikes, June. Dry soil in full sun.
- BELLIS** *perennis*, English Daisy. 6 in. Crimson to white. Double. May-June.
- BLEEDING HEART**. See *Dicentra*.
- BOLTONIA** *asteroides*. 5 to 6 ft. Branched stems. Small aster-like white flowers. September. Excellent for cutting.
- CALLIRHOE** *involucrata*, 30c: Mallow Poppy. Trailing. Large, saucer-shaped, deep crimson flowers. June-September.
- CAMPANULA** *carpatica*, Harebell, 30c: Dense mat, 8 in., clear blue, June-October.
- *carpatica alba*, 30c: A pure white form of the above.
  - *persicifolia*, 2 ft., 30c: Large cup-shaped blue flowers. June-July.
  - *rapunculoides*, 1 to 1½ ft. Nodding purplish blue. June, some till September.
- CENTUREA** *montana*, Perennial Cornflower. 1 to 2 ft. Large heads of violet-blue. July-September.
- CERASTIUM** *tomentosum*, Snow-in-Summer, 30c: Trailing. A mat of silvery white foliage. White flowers in June. Fine for rockery.
- CHRYSANTHEMUMS**, Hardy. All like rich soil, and winter protection.
- *Eva*, 3 ft. Deep rose pink. Bloomed October 10th.
  - *Glory of Seven Oaks* or *Carrie*. Rich golden yellow. July-October.
  - *Normandie*. Creamy-white opening with a pinkish tinge. October 1st.
  - *Province*. Rose pink, tipped rosy red. Fine. October 5th.
- CLEMATIS** *recta mandschurica*, 40c: 2 ft. Clusters of large fragrant white flowers, in June-July. Heads of wooly seed till winter. Very desirable and superior to the common *C. recta*.
- COREOPSIS** *grandiflora*. 3 ft. Deep yellow. Splendid cut flowers, June-October.
- *imbricata*, 2½ ft. Large bright yellow. June-October.

PRICES unless noted: 25c each, \$2.40 per dozen, \$15.00 per hundred.

## OTHER HARDY PERENNIALS—Continued

- DAISY**—*Arctic, Chrysanthemum arcticum*. 1 ft. Pink tinted white flowers, 2 in. in September-October. Fine dark green foliage.  
 — *Double White Shasta, C. leucanthemum flore plena*. Double, pure white flowers in great abundance in May. Needs no protection.  
 — *Giant Daisy, Pyrethrum uliginosum*. 3 to 4 ft. Large white flowers. August-September.  
 — *Shasta*, 1 to 2 ft. Large white daisies, July-September. Needs protection.
- DELPHINIUM, Larkspur**. All like limestone soil.  
 — *Belladonna*. 2 to 4 ft. Light blue, all summer. The English improved larger strain. One of the choicest.  
 — *Bellamosa*. 2 to 4 ft. Dark blue, all summer.  
 — *Chinese Blue*. 1 to 2 ft. Finely cut foliage. Gentian blue, all summer.  
 — *Azure*, a pale blue form of the above.  
 — *White*, a white form of the above.  
 — *English Hybrids*, 4 ft. or more. All shades, each plant distinct. Plants selected while in bloom 30c and up, according to size and quality.
- DIANTHUS alpinus, 30c**: 4 to 6 in. Large rosy-purple flowers.  
 — *barbatus, Sweet William*. 1 ft. Mixed colors. May-June.  
 — *caesius, 30c: Cheddar Pink*. 3 to 6 in. Fragrant rose pink. Dry soil.  
 — *Griesbachii, 30c*: Trailing. Deep rose flowers.  
 — *deltoides, Brilliant*. 6 in. Very bright red. June-July.  
 — *latifolius atrococcineus fl. pl., Everblooming Sweet William*. 18 in., dark crimson, double, carnation-like flowers all summer.  
 — *neglectus, 35c*: Cherry red flowers from small dense tufts. Acid soil.  
 — *plumarius, Clove Pink*. 1 ft. Various colors. May-June.
- DICENTRA exima, Plumy or Fern Leaved Bleeding Heart, 30c**: 1 ft. Finely cut light green foliage till frost. Compact growing. Flowers from early spring till frozen. Perfectly hardy and thrives in sun or shade. An ideal rockery plant.  
 — *Spectabilis, Bleeding Heart, 60c*: 1½ to 2 ft. Long racemes of graceful heart-shaped, rose-crimson flowers. April-June. Thrives any place.
- ECHINOPS ritro, Globe Thistle, 30c**: 3 to 4 ft. Large globular heads of metallic blue July-August. Good for drying.
- ERYNGIUM planum, Sea Holly**. 2 ft. Spiny foliage. Thistle-like heads of steel-blue flowers. July-August. Fine for drying.
- EUPHORBIA corollata, Flowering Spurge, 30c**: 2 to 3 ft. Small white flowers, much branched stems. July-August. Preferable to *Gypsophila* for cutting.
- FERN**—*Ostrich, Onoclea struthiopteris, 30c*. 2 to 3 ft. Prefers part shade and leaf-mold, but will endure almost any situation.
- FILIPENDULA ulmaria, Meadowsweet, 30c**: 2 ft. Feathery plumes of creamy-white in June-July.
- GAILLARDIA, Blanket Flower**. 1 to 2 ft. Flowers have red, yellow, and orange blended. May-October. Endures drouth. Very desirable and easily grown.
- GALEGIA officinalis, Goat's Rue**. 3 to 4 ft. Pink or purplish, July-August.
- GYPSOPHILA paniculata, Baby's Breath**. 2 to 3 ft. Misty masses of small white flowers, June-July. Much used in bouquets.  
 — *repens, 35c*: Trailing. Rose tinted white flowers.
- HELENIUM autumnale**. 4 to 5 ft. Brilliant yellow, with brown center. September-October.
- HELIOPSIS scabra zinniaeflora**. 2 to 3 ft. Large deep yellow, July-October.  
 — *pitcheriana*. 3 to 4 ft. Deep yellow, July-August.
- HEMEROCALLIS, Yellow Day Lily**. Grow anywhere.  
 — *flava, Lemon Lily*. 2½ ft. May-June, lemon-yellow.  
 — *Florham, 40c*: 3 to 3½ ft. July. Large, rich yellow.
- PRICES unless noted: 25c each, \$2.40 per dozen, \$15.00 per hundred.

## OTHER HARDY PERENNIALS—Continued

- fluva, Tawny Day Lily, 3 to 5 ft. July. Coppery-orange.
  - Gold Dust, 2 to 3 ft. July. Richest yellow.
  - Kwanso, 3 to 4 ft. July. Double, golden bronze.
  - thunbergi, 2 to 3 ft. July-August. Fragrant, lemon yellow.
  - HESPERIS matronalis**, Sweet Rocket, 2 ft. White, fragrant. May-June.
  - HEUCHERA sanguinea**, Coral Bells, 35c: 1 to 2 ft. Spikes of pendant coral bells. July-August. Like rich, moist loam.
  - HIBISCUS**, Mallow, 4 to 5 ft. Rose, pink, or white 6 in. flowers, July-September.
  - HOSTA**, Funkia, Plantain Lily. Thrive almost anywhere.
  - coerulea, Blue Plantain Lily, 1½ ft. July. Drooping blue flowers.
  - subcordata grandiflora, 50c: 2 ft. August-September. White flowers.
  - HOLLYHOCKS**, 4 to 8 ft. Assorted colors. August-September.
  - HYPERICUM elegans**, 30c: Siberian St. Johnswort. Bright yellow July-August.
  - repens, 30c: Trailing. Heath-like growth. Large yellow flowers.
  - IBERIS Pruiti**, Dwarf Candytuft. Mass of white through May.
  - INCARVILLEA**, Hardy Gloxinia, 35c: 1 to 2 ft. Large pink trumpet-shaped flowers through summer. Give dry cover in winter.
  - LILIUM**, Lilies. Most kinds require well-drained deep soil.
  - auratum, Gold-banded Lily, 45c: July-August. 3 to 5 ft. Very large, fragrant white flowers, with yellow stripes.
  - elegans, 30c: June. Orange-red flowers stand upright 2 to 3 ft.
  - elegans Leonard Joerg, 40c: June. A rich apricot variety. 2 to 3 ft.
  - regale, The Regal Lily, 50c: July. White shaded pink. 2 to 3 ft.
  - speciosum magnificum, 50c: August-September. Pink with red dots. 2 ft.
  - superbum, Turk's Cap Lily, 30c: Reddish-orange. July. 4 to 6 ft.
  - tigrinum, Tiger Lily, 30c: July-August. Orange spotted black. 3 to 5 ft.
  - tigrinum flore plena, 30c: Double Tiger Lily. 3 to 5 rows of petals.
  - LINUM perenne**, Hardy Flax. 1 to 2 ft. Light, graceful foliage and stems. Pale blue flowers each morning, June-September.
  - LYTHRUM roseum superbum**, 35c: Purple Loosestrife. 3 to 4 ft. Branched spikes of rosy-purple July-August. For moist or wet places.
  - MYOSOTIS alpestris**, Forget-Me-Not. 6 in. Delicate blue. Fine in part shady beds or borders. Blooms a long time.
  - NEPETA mussini**, Ground Ivy, 30c: 1 ft. Compact, beautiful foliage, lavender-blue flowers, constantly. A splendid rockery plant.
  - OENOTHERA speciosa**, White Evening Primrose. 1½ ft. Large flowers. August-September.
  - youngi, Sundrops, Evening Primrose. 2 ft. Lemon yellow. June-August.
  - PACHYSANDRA terminalis**, Japanese Spurge. 6 to 9 in. Glossy light green foliage. Evergreen. A splendid ground cover for shade. Acid soil.
  - PENSTEMON barbatus**, 30c: Spikes 3 to 4 ft., bright scarlet, June-August.
  - grandiflora, 30c: Spikes 2 ft., lavender-blue flowers. June. A splendid cut flower. Dry soils in sun only.
  - PHLOX**—amoena, 30c: 4 in. A mass of pink in April-May.
  - arendsi, 1 ft. May-June. Crosses of the Wild Blue and Garden Phlox.
  - Charlotte, 40c: White tinged pink, carmine eye.
  - Louise, 40c: Pale lilac with carmine eye.
  - divaricata Lapham, Perry's Variety, 30c: 1 ft. A beautifully improved form of the Wild Blue Phlox. Lilac-blue.
  - pilosa, 30c: 1 ft. Lilac-pink. May. Dry sunny places.
  - subulata, Moss Phlox. All spreading plants, very fine for rockery or border.
  - alba, 30c: The most vigorous variety, pure white.
  - Fairy, 40c: Pale blue with dark purple eye. Splendid new kind.
  - lilacina, Lilac, 30c: Light blue. The strongest growing variety.
- PRICES unless noted: 25c each, \$2.40 per dozen, \$15.00 per hundred.

## OTHER HARDY PERENNIALS—Continued

- rosea, Rose pink, 30c: The commonest variety.
- vivid, 40c: Vivid pink. The best dwarf pink. Slower-growing.
- suffruticosa, Miss Lingard, 30c: 1½ ft. Pure white, very large long trusses. Very early. Dark glossy green foliage.
- PHLOX paniculata**, Garden Phlox. All 30c each, \$2.50 per 10. All like rich, moist, well-drained soil, and a mulching of well-rotted manure in winter.
- **Baron Von Dedum**, orange-red tinted old rose.
- **Champs Elysee**, very dark purplish-crimson.
- **H. O. Wijers**, white with large crimson eye.
- **Jules Sandeau**, large delicate salmon pink, dwarf.
- **Mrs. Jenkins**, large, white, tall.
- **Prof. Virchow**, brilliant carmine overlaid with orange-scarlet.
- **Rijnstroom, Rynstrom**. Very large, pure rose pink. One of the best.
- **R. P. Struthers**, cherry red with claret red eye.
- **Siebold**, orange-scarlet with a darker eye.
- **Special France**, delicate rose with carmine-rose eye.
- **Von Hochberg**, the nearest pure red.
- **W. C. Egan**, very large, soft pink.
- **Widar**, bright reddish-violet with a white eye.
- PHYSOSTEGIA**, False Dragonhead. Thrives in any good soil.
- **virginica**. 3 to 4 ft. August-September. Spikes of delicate pink, tubular flowers.
- **alba**. A white form of above, July-August.
- **vivid**, 30c: 2 ft. Deep pink. Early September till hard freezing. Fine for cutting. Massed, it gives the landscape effect of Heather. One of the choicest new perennials.
- PHYSALIS franchetti**, Chinese Lantern Plant. 1 to 2 ft. Attractive orange seed pods last all winter. Roots spread rapidly.
- PLATYCODON grandiflora**, Balloon Flower. 2 to 3 ft. June-October. Large bell-shaped flowers, either blue or white. Inflated balloon-like buds.
- **mariesi**. 1 to 1½ ft., otherwise like above. Very fine flower.
- PLUMBAGO larpentae**, 35c, Blue Leadwort. ½ to 1 ft. Cobalt blue, July-September. Protect. Compact, spreading habit.
- POLEMONIUM reptans**, Greek Valerian. ½ to 1 ft. Blue flowers April-May.
- POPPY**, Iceland—**Papaver nudicaule**. 1 ft. Cup-shaped flowers, white to orange-scarlet, mostly yellow, on slender nodding stems. Self-sowing biennial.
- **Pilosum**. 1 to 2 ft. Salmon flowers on slender nodding stems. Perennial.
- **Oriental, Papaver orientale**, 30c: 2 ft. Large orange-scarlet flowers with black centers, in May-June. Transplant in August.
- PYRETHRUM**, Persian or Painted Daisy. 2 to 3 ft. All colors, white to deep red.
- **Hybrids**, random colors, as they run from seed.
- **Selected Pink**, 30c: Color marked when in bloom.
- **Selected Deep Red**, 35c: Color marked when in bloom.
- **Parthenium aureum**, Golden Feather, Feverfew. Small white flowers, golden foliage, useful for edging or borders.
- RANUNCULUS acris**, English Buttercup. 1 to 2 ft. Upright, branching. Small, double, waxy golden yellow. May-June. Good for cutting.
- **repens**, similar to above but prostrate, spreading rapidly.
- SAGINA glabra**, 40c: 1 in. Makes a dense green mat. Tiny white flowers.
- SALVIA turkestanica**. 2 to 3 ft. Small white flowers. Large, very decorative wooly leaves, flat on the ground.
- **praetensis**. 1 ft. Indigo-blue, or violet flowers.
- SAPONARIA ocymoides**, Rock Soapwort, 30c: 1 ft. Mass of small rosy pink flowers in May-June.
- SAXIFRAGA crassifolia**, 50c: 1 ft. Broad green foliage, rosy pink flowers. April-May.
- SEDUM**, Stonecrop, Liveforever.
- **acre**, Golden Moss. Creeping, green foliage, yellow flowers.

PRICES unless noted: 25c each, \$2.40 per dozen, \$15.00 per hundred.

## OTHER HARDY PERENNIALS—Continued

- album. 2 to 3 in. Round green foliage, small white flowers.
  - anglicum. 1 to 2 in. Forms a dense bluish-green mat.
  - ewersi. 2 to 4 in. Grayish foliage, pinkish flowers.
  - kamtschaticum. 6 in. Bright green foliage, golden yellow flowers.
  - rupestre. 4 to 6 in. Creeping, reddish stems.
  - sarmentosum, Stringy Sedum. Dwarf, rapid spreading.
  - sieboldi. 6 in. Pink flowers in September. Foliage bordered red.
  - spectabile. 1 to 1½ ft. Large heads of pink flowers in August-September. Broad light green foliage. Good border plant.
  - Brilliant, like the above, but rosy-crimson.
  - Variegata. Pink flowers, and leaves striped yellowish.
  - stoloniferum coccineum, 6 to 8 in. Rosy-crimson, July-August.
  - SIDLACEA candida.** 2 to 3 ft. Spikes of white flowers. July-September.
  - SOLIDAGO, Golden Rod.** Golden Wings, 30c: Very wide panicles, 4 ft. August.
  - missouriensis, 30c: Aster Flowered Golden Rod. Compound panicles of sulphur yellow, small aster-like flowers. August.
  - STATICE latifolia, Sea Lavender.** 1 to 2 ft. Broad, thick leaves, upright, finely branched panicles of small blue flowers. August-September. Splendid for cutting and drying.
  - STOKESIA, Stokes Aster.** 1 to 2 ft. Large lavender-blue flowers July-October. Succeed in any open sunny soil. Most attractive
  - THALICTRUM adiantifolium, Meadowrue.** Leaves like maidenhair Fern. 1 to 2 ft. Flowers yellowish. June-July.
  - flavum. 3 to 4 ft. Fine foliage, lemon yellow flowers, July.
  - minus. 1 to 2 ft. Low Meadowrue. Greenish yellow flowers, June-July.
  - THYMUS album.** A carpet of dark green, with many small white flowers in June-July. Thrives on dry banks.
  - coccineum. Like the above, but with dark red flowers.
  - TRADESCANTIA virginica, Spiderwort.** 2 to 3 ft. Grassy leaves, blue flowers.
  - Rose colored form of above, more dwarf.
  - TUNICA saxifraga.** Tufts of wiry foliage, 6 in., and light pink small flowers all summer.
  - VERBASCUM harkness Hybrids.** 3 to 5 ft. Improved Mullein. Long branched spikes of large deep yellow flowers, all summer. Plant with tall Delphiniums.
  - VERONICA amethystina.** 1 ft. Spikes of rich amethyst-blue in June-July.
  - elegans. 1 ft. Erect. Spikes of pale pink June-July.
  - rupestris, Trailing. 3 to 4 in. Bright blue in June. Makes a thick carpet.
  - spicata. 2 ft. Erect spikes of deep blue in June.
  - teucrium. ½ to 1 ft. Spreading, blue flowers May-June.
  - longifolia subsessilis, Japanese Speedwell, 40c: 2 ft. Spikes of large dark blue. August-October. The best tall variety.
  - VINCA minor, Trailing Myrtle.** Evergreen. Lilac-blue, April-May.
  - VIOLA—calcarata, Violet-blue.** Likes shady place.
  - hybrida, Osborn White. A creamy white.
  - Apricot. Shades of apricot.
  - Jersey Gem. Large, fragrant, violet color.
  - odorata, Sweet Violet. Very fragrant, rich violet.
  - YUCCA filamentosa, Adam's Needle.** 4 to 6 ft. Tall pyramidal clusters of large creamy flowers. June-July. Heavy 3-year plants, 50c; 2-year, 35c.
- PRICES unless noted: 25c each, \$2.40 per dozen, \$15.00 per hundred.

## FOREST TREE SEEDLINGS

	Size	Per 100	Per 1,000
GREEN ASH .....	18 to 24 in.	\$3.00	\$25.00
	12 to 18 in.	2.25	20.00
BLACK LOCUST .....	2 to 3 ft.	2.50	22.00
	18 to 24 in.	2.00	18.00
	12 to 18 in.	1.50	12.50
BLACK WALNUT .....	12 to 18 in.	5.00	45.00
	6 to 12 in.	4.00	35.00
CAROLINA POPLARS, 1-year whips .....	5 ft. & up	8.00	75.00
	Rooted Cuttings.	4 to 5 ft.	7.00
		3 to 4 ft.	6.00
		2 to 3 ft.	4.50
HARDY CATALPA .....	12 to 18 in.	1.50	14.00
	6 to 12 in.	1.00	8.00
HONEY LOCUST .....	18 to 24 in.	2.50	22.50
	12 to 18 in.	2.00	17.50
RUSSIAN MULBERRY .....	2 to 3 ft.	3.50	30.00
	18 to 24 in.	2.50	22.50
	12 to 18 in.	2.00	16.00
SOFT MAPLE .....	18 to 24 in.	2.50	22.00
	12 to 18 in.	2.00	16.00

## GRAFTED NUT TREES

## HICKORIES

## PECANS

## HICCANES

The demand for these trees continues to exceed the supply and probably will for a long time, because of the limited number of stocks which are ready to graft, it taking from three to eight years for them to attain sufficient size. The stock ready for sale the spring of 1929 is very limited and a list of kinds available will be sent to those asking for it. Some trees can be supplied of top-worked hickories which were grafted about four feet high on shagbark stocks and are now six feet high or more. This size has less trouble from bark bursting than smaller trees. Write for available kinds.

**BLACK WALNUTS.** The Thomas walnut is best known and most planted of the grafted varieties. The tree is hardy, very vigorous growing, productive, and a very young bearer, switches one year old often bearing the following season. The nut is large, fairly thin-shelled, easily cracked, and yields ten pounds or more per bushel of light-colored meats of fine quality.

Ohio is a close rival of the Thomas and by some is considered rather superior to it in certain respects.

**Stabler** is a native of Maryland and not as hardy as Thomas or Ohio. The nut is of fair size, very thin-shelled, and often not divided, so the meats can be extracted in one piece. All trees quoted are one-year tops grafted on transplanted stock.

PRICES—	5-6 ft.	4-5 ft.	3-4 ft.	2-3 ft.	18-24 in.
Thomas .....	\$3.00	\$2.50	\$2.25	\$2.00	\$1.50
Ohio .....	.....	.....	2.25	2.00	1.50
Stabler .....	.....	.....	.....	2.00	1.00

**THE WINKLER HAZLENUT** is the best and largest of many kinds we have tried. The nuts are produced freely, are larger than many European Filberts and

## GRAFTED NUT TREES—Continued

have the choice quality of the small wild hazlenut. They are uniformly large, sometimes over one inch long. Often the kernels almost burst the shells open and they can be easily pried apart with a light knife or one's thumb nail. The bush is shapely and grows to about six feet, making a desirable ornamental shrub. The foliage is good and none on the place colors more beautifully in autumn. A sample of the nuts will be sent to those interested.

Transplanted Layers .....	12-15 in.	\$1.00 each
“ “ .....	15-18 in.	1.50 each
“ “ .....	24-30 in.	2.00 each
“ “ .....	30-36 in.	2.50 each

**EUROPEAN FILBERTS.** The following varieties have been found hardiest out of a large number tested here. Most kinds listed in catalogs from New England or the Pacific Coast are without value here. A good crop was produced in 1928 by the kinds listed. Some years the staminate catkins are winter-injured so they fail to bear. Cross pollenization is necessary. Do not plant all of one variety.

**Italian Red.** A very tall, upright growing bush, and one of the largest nuts. It seldom fails entirely.

**Red Lambert.** A medium sized, wide spreading bush. Bears a large, fine nut.

**Althadensleben.** Medium sized bush and thin shelled nut. Kernel always very plump and of highest quality.

A limited number of plants of **Large Globe, Bony Bush, and Merveille de Bolli-veller**, which are all good varieties, can be supplied.

PRICES on all Filberts—Bushy plants about 3 ft. .... \$1.50 each

## LISTS OF WOODY PLANTS TOLERATING GIVEN CONDITIONS

## For Dry Shady Places—List No. 1

Acanthopanax pentaphyllum .....	Honeysuckle, Morrow's
Barberry .....	Privets, Polish and Ibota
Bittersweet .....	Snowberry Red or Coralberry
Currant, Alpine .....	Sumac Aromatic

## For Moist Shady Places—List No. 2

All those in list No. 1 .....	Red Bud
Amelanchier, Juneberry .....	Snowberry, White
Bladdernut .....	Sorbaria sorbifolia
Cornus, alternifolia and florida .....	Spirea billardi
Hemlock .....	Witch Hazel
Hydrangea arborescens .....	Yews

## For Dry Soil in Sun—List No. 3

All in list No. 1 .....	Pine Mugho
Caragana .....	Prunus siberica
Juniperus Pfitzers .....	Rhodotyphus kerroides
Juniperus Sabina .....	Russian Olive
Juniperus Virginiana .....	Sumacs, all kinds
Matrimony Vine .....	Tamarix
Potentilla fruticosa .....	Yucca filamentosa

## For Wet Soils—List No. 4

Amelanchier, all kinds .....	Ilex verticillata
Aronia, all kinds .....	Viburnum cassinoides
Bladdernut .....	Virburnum dentatum
Button Bush .....	Virburnum lentago
Clethra alnifolia .....	Willows

## LISTS OF WOODY PLANTS TOLERATING GIVEN CONDITIONS—Continued

## Smoke and Dust of the Cities—List No. 5

Acanthopanax pentaphyllum .....	Physocarpus opulifolius
Barberry .....	Privet ibota
Cornus alba siberica .....	Rhodotyphus kerroides
Exochordia grandiflora .....	Spirea Van Houtti
Forsythias .....	Snowberry varieties
Honeysuckle Fragrantissima .....	Tamarix
Lilacs .....	Virburnum varieties
Philadelphus varieties .....	

## Plants Having Attractive Winter Fruit—List No. 6

Barberry .....	Mountain Ash
Cornus florida .....	Privets
Cotoneasters .....	Roses, Hardy species
Crabs, Most Flowering .....	Snowberries, Red and White
Euonymus alatus .....	Sumacs
Ilex verticillata .....	Thorn, Hawthorns
Junipers .....	Viburnum opulus



